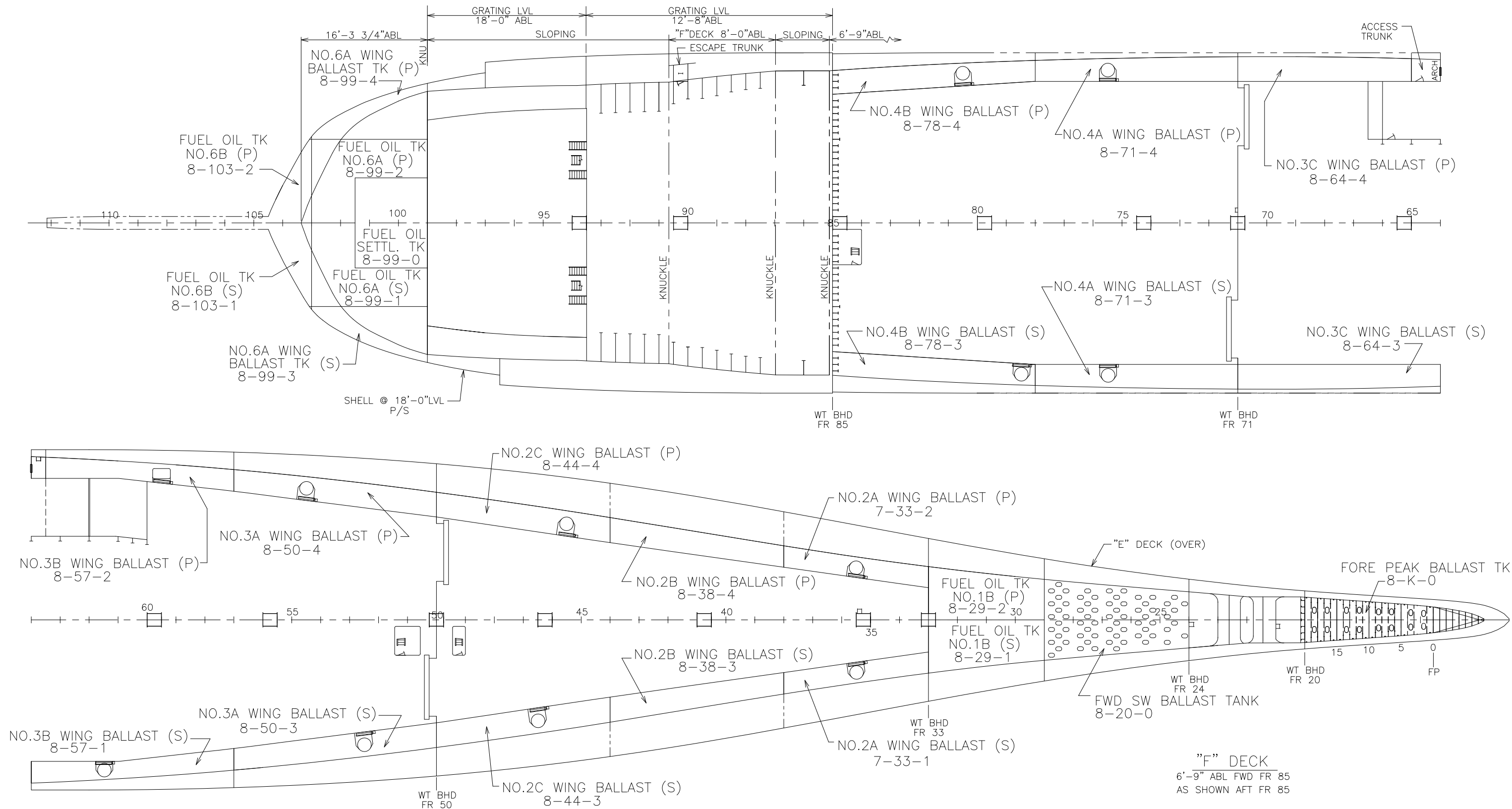


INDEX															
SH NO	TITLE				SH NO	TITLE				SH NO	TITLE				
31	NO 4B WING BALLAST TANK S 8-78-3				66	CSA WASTE OIL TANK 8-87-2									
32	NO 6A WING BALLAST TANK P/S 8-99-4/3				67	CSA OILY WASTE HOLDING TANK 8-87-4									
33	NO 6B WING BALLAST TANK P/S 8-103-4/3				68	ENGINE ROOM WASTE OIL TANK 8-94-2									
34	NO 6D SW BALLAST TANK P/S 8-109-2/1				69	ENGINE ROOM OILY WASTE HOLDING TANK 8-93-2									
35	AFT PEAK BALLAST TANK P/S 8-113-2/1				70	OILY WASTE DRAIN COLLECTING TANK 7.5-86-2									
36	LIST CONTROL TANK P/S 6-64-2/1				71	USED OIL TANK 8-93-3									
37	POTABLE WATER TANK NO 1 5-95-7				72	FUEL OIL OVERFLOW TANK 8-93-1									
38	POTABLE WATER TANK NO 2 5-95-9				73	STERN TUBE LO DRAIN TANK P/S 7.5-97-2/1									
39	RESV FEED WATER TANK 5-91-1				74	VCHT TANK 2.5-91-2									
40	DIST WATER TANK 4.5-91-1				75	WASTE WATER TANK 2.5-94-2									
41	FUEL OIL TANK NO 1B P/S 8-29-2/1				76	FIXED BALLAST TANK 8-57-0									
42	FUEL OIL TANK NO 2A P/S 8-33-2/1														
43	FUEL OIL TANK NO 2B P/S 8-38-2/1														
44	FUEL OIL TANK NO 2C P/S 8-44-2/1														
45	FUEL OIL TANK NO 3A P/S 8-50-2/1														
46	FUEL OIL TANK NO 3C P/S 8-64-2/1														
47	FUEL OIL TANK NO 4A P/S 8-71-2/1														
48	FUEL OIL TANK NO 4B P/S 8-78-2/1														
49	FUEL OIL TANK NO 6A P/S 8-99-2/1														
50	FUEL OIL TANK NO 6B P/S 8-103-2/1														
51	FUEL OIL TANK NO 6C P/S 8-106-2/1														
52	SSDG FUEL OIL SERVICE TANK 6.5-99-1														
53	FUEL OIL SETTLING TANK 8-99-0														
54	FUEL OIL SERVICE TANK P 6.5-85-2														
55	FUEL OIL SERVICE TANK S 6.5-85-1														
56	EM GEN FO SERVICE TANK 02.5-103-1														
57	ME/SSDG LO STORAGE TANK P 6.5-91-2														
58	ME/SSDG LO STORAGE TANK S 6.5-90-1														
59	ME/SSDG LO SETTLING TANK P 6.5-93-2														
60	CPP LO STORAGE TANK 5-93-2														
61	CPP LO SETTLING TANK 5-95-3								SIZE B		AVONDALE DWG NO		REV A		
62	RG LO STORAGE TANK 5-92-2										C3-222 29-01-023				
63	RG LO SETTLING TANK 5-95-5										CAGE			DWG NO	
64	ME LO SUMP TANK P/S 7.5-86-4/1										94421			COMSC 085-6975806	
65	ME LO SUMP TANK P/S 7.5-86-6/3														
												SH NO 3			

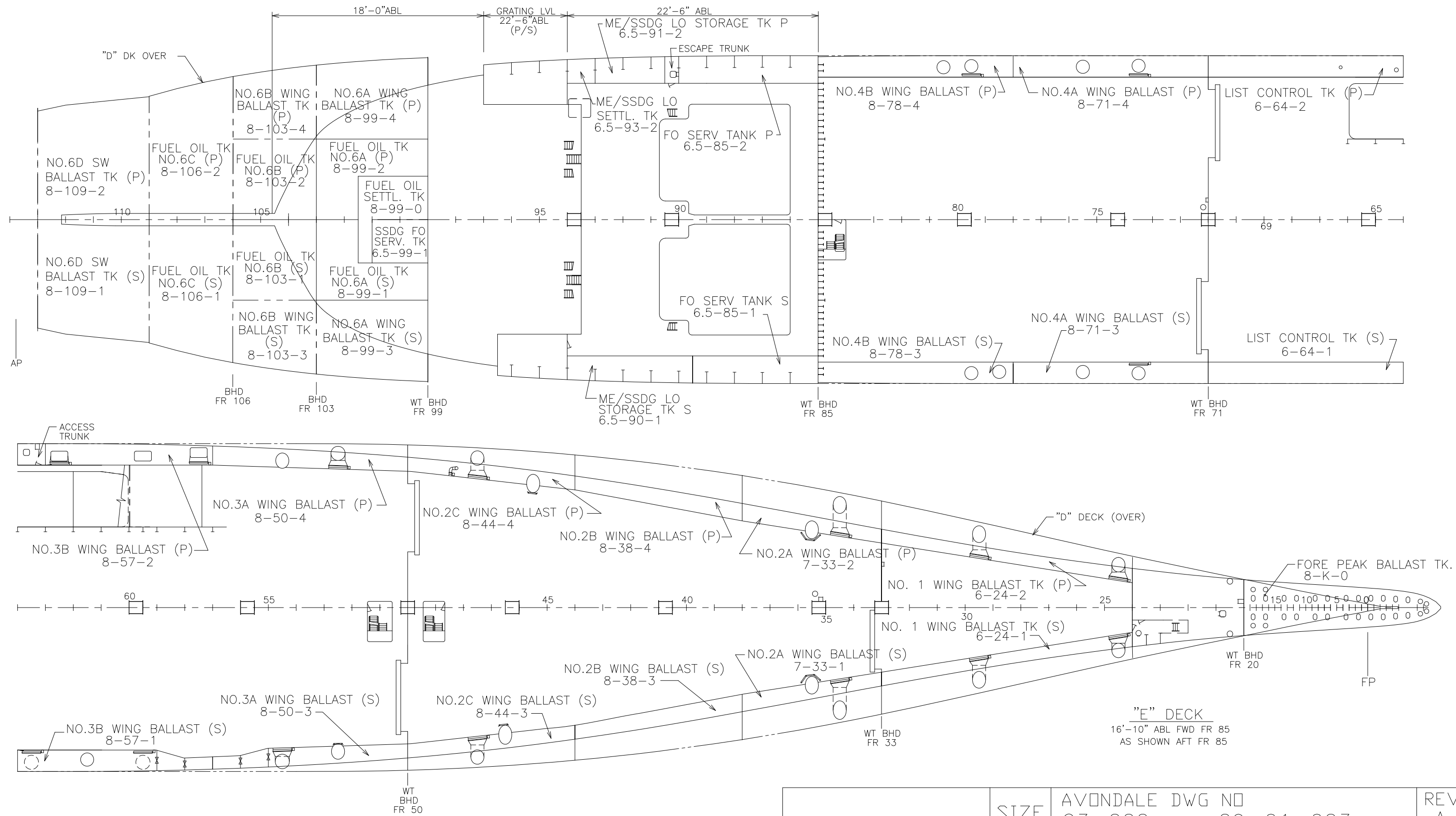
GENERAL NOTES							GENERAL NOTES (CONT'D)																																																
1. THE TANK CAPACITY DATA PRESENTED IN THIS BOOKLET ARE BASED ON A ZERO TRIM AND LIST CONDITION OF THE VESSEL. 2. THE CALCULATIONS INCLUDE A 2% DEDUCTION VALUE FOR ITEMS SUCH AS STRUCTURE, PIPING AND OUTFITTING LOCATED WITHIN THE BOUNDARIES. THESE DEDUCTIONS WERE APPLIED UNIFORMLY OVER THE DEPTH OF THE TANK. 3. FOR SIMPLICITY, ANY SYMMETRICAL (PORT & STBD) TANKS ARE DESIGNATED AS "P OR S" ON THE HEADING OF THEIR RESPECTIVE CURVE PLOTS. THE DATA PROVIDED IN SUCH PLOTS ARE FOR EITHER PORT OR STBD TANKS. HOWEVER, VALUES FOR EACH TANK ARE LISTED IN THE TANK SUMMARY TABLES. 4. THE REFERENCE PLANES USED IN THE CURVES ARE AS FOLLOWS: A) VERTICAL: BOTTOM OF THE KEEL = 0.07' BELOW BASELINE. B) LONGITUDINAL: FWD PERPENDICULAR = 0.00' FROM FRAME 0 C) TRANSVERSE: LONGITUDINAL CENTERLINE = PORT IS POSITIVE, STARBOARD IS NEGATIVE. NOTE: THE TCG VALUES SHOWN ON THE CURVES FOR SYMMETRICAL (P & S) TANKS ARE SHOWN AS POSITIVE VALUES. IF A SYMMETRICAL PAIR OF TANKS ARE USED INDIVIDUALLY, SIMPLY USE A NEGATIVE TCG VALUE FOR THE STARBOARD TANK. 5. THE FOLLOWING CONVERSION FACTORS MAY BE USEFUL: <table><tr><th><u>DIVIDE</u></th><th><u>BY</u></th><th><u>TO OBTAIN</u></th></tr><tr><td>GALLONS</td><td>261.835</td><td>LONG TONS SALT WATER</td></tr><tr><td>GALLONS</td><td>269.316</td><td>LONG TONS FRESH WATER</td></tr><tr><td>GALLONS</td><td>316.596</td><td>LONG TONS DFM</td></tr><tr><td>GALLONS</td><td>291.759</td><td>LONG TONS LUBE OIL</td></tr><tr><td>GALLONS</td><td>7.481</td><td>CUBIC FEET</td></tr></table>							<u>DIVIDE</u>	<u>BY</u>	<u>TO OBTAIN</u>	GALLONS	261.835	LONG TONS SALT WATER	GALLONS	269.316	LONG TONS FRESH WATER	GALLONS	316.596	LONG TONS DFM	GALLONS	291.759	LONG TONS LUBE OIL	GALLONS	7.481	CUBIC FEET	5. CONVERSION FACTORS CONTINUED: <table><tr><th><u>MULTIPLY</u></th><th><u>BY</u></th><th><u>TO OBTAIN</u></th></tr><tr><td>LONG TONS</td><td>2240</td><td>POUNDS</td></tr><tr><td>LONG TONS</td><td>1.12</td><td>SHORT TONS</td></tr><tr><td>LONG TONS</td><td>1.016</td><td>METRIC TONS</td></tr><tr><td>LONG TONS SW</td><td>35.00</td><td>CUBIC FEET</td></tr><tr><td>LONG TONS FW</td><td>36.00</td><td>CUBIC FEET</td></tr><tr><td>LONG TONS DFM</td><td>42.32</td><td>CUBIC FEET</td></tr><tr><td>LONG TONS LO</td><td>39.00</td><td>CUBIC FEET</td></tr></table> 6. ALL CURVES EXCEPT THE VCG CURVE ARE TO BE READ AS FOLLOWS: DETERMINE THE HEIGHT ABOVE KEEL OF THE LIQUID SURFACE, READ ACROSS TO THE DESIRED CURVE, THEN READ UP OR DOWN TO THE APPROPRIATE SCALE. THE VCG CURVE IS READ BY FIRST DETERMINING THE HEIGHT ABOVE KEEL OF THE LIQUID SURFACE AND THEN READ ACROSS TO THE CAPACITY CURVE. NEXT, READ DOWN TO THE VCG CURVE AND THEN BACK TO THE "HEIGHT ABOVE KEEL" SCALE. THE CONVERSION OF CURVE READINGS IS DETERMINED BY USING THE CORRESPONDING SCALING VALUES IN THE LOWER RIGHT CORNER OF EACH PLOT.							<u>MULTIPLY</u>	<u>BY</u>	<u>TO OBTAIN</u>	LONG TONS	2240	POUNDS	LONG TONS	1.12	SHORT TONS	LONG TONS	1.016	METRIC TONS	LONG TONS SW	35.00	CUBIC FEET	LONG TONS FW	36.00	CUBIC FEET	LONG TONS DFM	42.32	CUBIC FEET	LONG TONS LO	39.00	CUBIC FEET
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REVISIONS			SIZE B	AVONDALE DWG NO C3-222		29-01-023		REV A																																															
				CAGE 94421	DWG NO COMSC 085-6975806																																																		
								SH NO	4																																														

							REVISIONS				
							REV	SH ZN	DESCRIPTION		
							A	10 ALL	1. REMOVED 03 LVL PLAN VIEW FROM KEY PLAN TO CORRECT. 2. ADDED SOUNDING TUBE DESCRIPTIONS AND RELEASED RESERVATION NO. 1. ITEM NO. 2 ABOVE TO COMPLY WITH QDR COMMENTS REF. NO. 2205-250-248 DATED 4/15/99.		
											BY: A.R. 5/17/99 APVD: DFN 5/17/99
									REVISIONS		SIZE B
									AVONDALE DWG NO C3-222 29-01-023		REV A
									CAGE 94421	DWG NO COMSC 085-6975806	
											SH NO 5



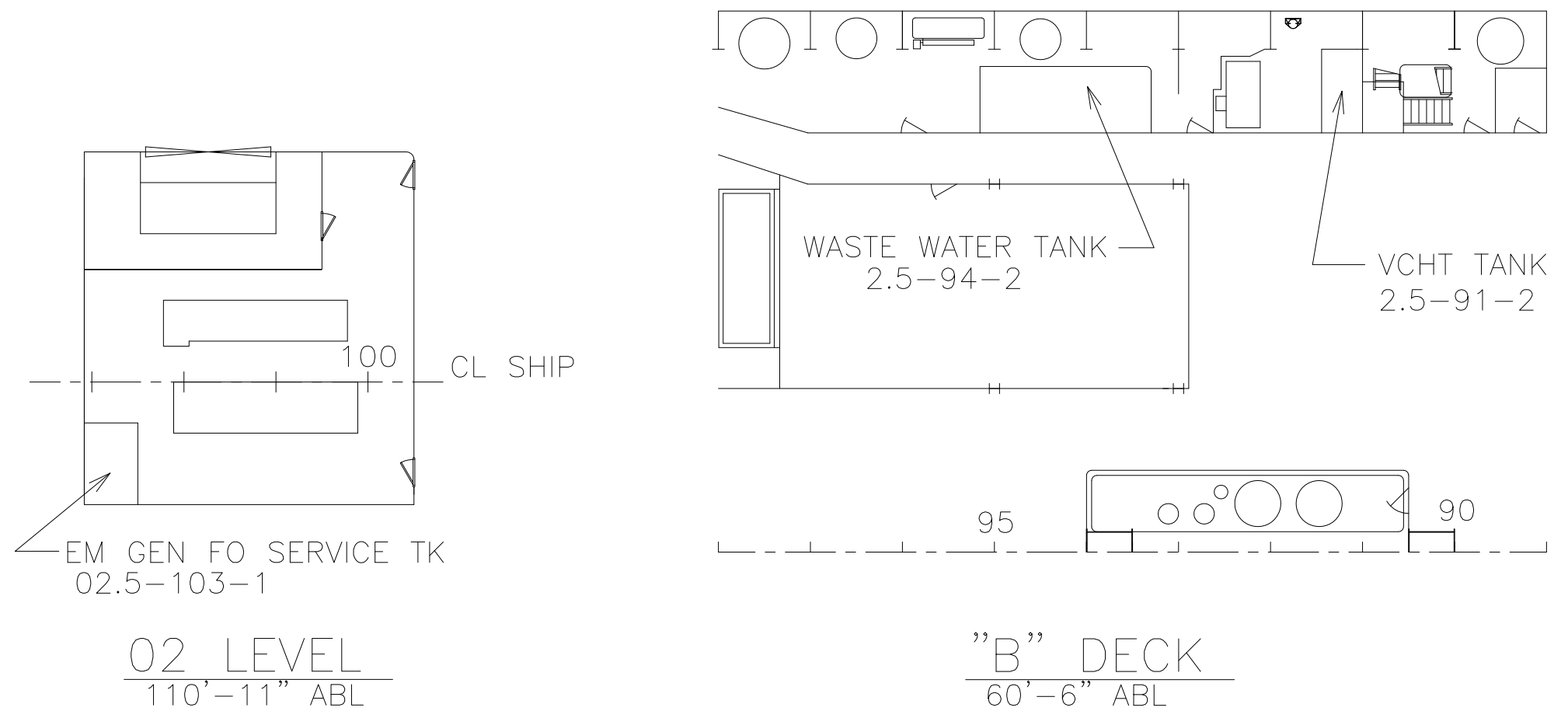
KEY PLAN

REVISIONS	SIZE	AVONDALE DWG NO		REV
	B	C3-222	29-01-023	A
	CAGE	DWG NO		
	94421	COMSC	085-6975806	
		SH NO	7	



KEY PLAN

REVISIONS	SIZE	AVONDALE DWG NO		REV
		C3-222	29-01-023	
		CAGE	DWG NO	
		94421	COMSC 085-6975806	
			SH NO	8



KEY PLAN

REVISIONS	SIZE B	AVONDALE DWG NO C3-222 29-01-023		REV A
		CAGE 94421	DWG NO COMSC 085-6975806	
			SH NO 10	

BALLAST TANK SUMMARY							
TANK	FRAME	CAPACITY 100% FULL GALLONS	CENTERS @ 100%			MAX FREE SURF (FT-LT)	
			VCG ABV KL (FEET)	LCG FROM FP (FEET)	TCG FROM CL (FEET)		
FOREPEAK	8-K-0	STEM-20	326785	36.98	18.54	0.00	9415.0
FWD SW BALLAST TK	8-20-0	20-29	134879	9.55	95.19	-0.02	3338.7
NO 1 WING BALLAST TK P	6-24-2	24-33	52493	24.68	120.74	19.24	718.4
NO 1 WING BALLAST TK S	6-24-1	24-33	54265	24.49	120.19	-19.12	719.5
NO 2A WING BALLAST TK P	7-33-2	33-38	74305	18.85	180.34	24.95	515.4
NO 2A WING BALLAST TK S	7-33-1	33-38	74749	18.75	180.32	-24.88	533.5
NO 2B WING BALLAST TK P	8-38-4	38-44	108367	17.62	228.83	31.90	887.6
NO 2B WING BALLAST TK S	8-38-3	38-44	108367	17.62	228.83	-31.90	887.6
NO 2C WING BALLAST TK P	8-44-4	44-50	103007	15.61	283.22	37.61	802.7
NO 2C WING BALLAST TK S	8-44-3	44-50	102877	15.58	282.90	-37.63	764.8
NO 3A WING BALLAST TK P	8-50-4	50-57	124786	13.78	341.87	41.46	816.0
NO 3A WING BALLAST TK S	8-50-3	50-57	122339	13.57	341.65	-41.41	816.0
NO 3B WING BALLAST TK P	8-57-2	57-64	121702	11.13	403.27	42.28	1786.4
NO 3B WING BALLAST TK S	8-57-1	57-64	127398	11.27	404.93	-42.61	1786.4
NO 3C WING BALLAST TK P	8-64-4	64-71	103286	6.44	469.27	40.92	2414.6
NO 3C WING BALLAST TK S	8-64-3	64-71	108876	6.73	467.80	-41.29	2414.6
NO 4A WING BALLAST TK P	8-71-4	71-78	143013	11.15	530.14	43.28	2350.3
NO 4A WING BALLAST TK S	8-71-3	71-78	144204	11.15	530.12	-43.33	2350.3
NO 4B WING BALLAST TK P	8-78-4	78-85	137277	11.83	593.94	42.85	1839.0
NO 4B WING BALLAST TK S	8-78-3	78-85	138709	11.87	594.35	-42.90	1839.0
NO 6A WING BALLAST TK P	8-99-4	99-103	79092	24.73	767.41	36.11	1330.7
NO 6A WING BALLAST TK S	8-99-3	99-103	79092	24.73	767.41	-36.11	1330.7
NO 6B WING BALLAST TK P	8-103-4	103-106	33054	27.07	799.08	34.53	682.5
NO 6B WING BALLAST TK S	8-103-3	103-106	33054	27.07	799.08	-34.53	682.5
NO 6D SW BALLAST TK P	8-109-2	109-113	36960	30.62	857.13	12.12	1714.8
NO 6D SW BALLAST TK S	8-109-1	109-113	36960	30.62	857.13	-12.12	1714.8
AFT PEAK BALLAST TK P	8-113-2	113-117	92901	39.83	893.02	19.17	6929.8
AFT PEAK BALLAST TK S	8-113-1	113-117	92901	39.83	893.02	-19.17	6929.8
TOTALS			2895698	19.07	404.32	-0.21	58311.4

FRESH WATER TANK SUMMARY								
TANK			FRAME	CAPACITY 100% FULL GALLONS	CENTERS @ 100%			MAX FREE SURF (FT-LT)
					VCG ABV KL (FEET)	LCG FROM FP (FEET)	TCG FROM CL (FEET)	
POTABLE WATER TANK NO 1 5-95-7			94-99	12706	38.90	729.75	-44.26	4.1
POTABLE WATER TANK NO 2 5-95-9			94-99	15827	38.94	729.07	-48.17	8.1
RESV FEED WATER TANK 5-91-1			91-92	2513	35.91	683.50	-47.21	5.5
DIST WATER TANK 4.5-91-1			91-92	2513	41.98	683.50	-47.21	5.5
TOTALS				33559	38.93	722.69	-46.54	23.2

LIST CONTROL TANK SUMMARY						
TANK	FRAME	CAPACITY 100% FULL (GALLONS)	CENTERS @ 100%			MAX FREE SURF (FT-LT)
			VCG ABV KL (FEET)	LCG FROM FP (FEET)	TCG FROM CL (FEET)	
LIST CONTROL TANK P 6-64-2	64-71	42076	23.48	467.50	49.46	48.7
LIST CONTROL TANK S 6-64-1	64-71	42076	23.48	467.50	-49.46	48.7
TOTALS		84152	23.48	467.50	0.00	97.4

FIXED BALLAST TANK SUMMARY						
TANK	FRAME	CAPACITY 100% FULL (GALLONS)	CENTERS @ 100%			MAX FREE SURF (FT-LT)
			VCG ABV KL (FEET)	LCG FROM FP (FEET)	TCG FROM CL (FEET)	
FIXED BALLAST TANK 8-57-0	57-64	162126	3.45	404.50	0.0	0.0
TOTALS		162126	3.45	404.50	0.0	0.0

REVISIONS							SIZE B	AVONDALE DWG NO				REV	
								C3-222		29-01-023		A	
								CAGE		DWG NO			
								94421		COMSC 085-6975806			
											SH NO 11		

FUEL OIL TANK SUMMARY													
TANK						FRAME	CAPACITY 100% FULL GALLONS	CAPACITY 98% FULL GALLONS	CENTERS @ 98%			MAX FREE SURF (FT-LT)	
									VCG ABV KL (FEET)	LCG FROM FP (FEET)	TCG FROM CL (FEET)		
FUEL OIL TANK NO 1B P 8-29-2						29-33	66501	65173	9.95	139.78	8.43	757.3	
FUEL OIL TANK NO 1B S 8-29-1						29-33	66501	65173	9.95	139.78	-8.43	757.3	
FUEL OIL TANK NO 2A P 8-33-2						33-38	30620	30007	3.96	180.92	7.52	679.7	
FUEL OIL TANK NO 2A S 8-33-1						33-38	30620	30007	3.96	180.92	-7.52	679.7	
FUEL OIL TANK NO 2B P 8-38-2						38-44	48679	47705	3.65	230.86	9.48	915.9	
FUEL OIL TANK NO 2B S 8-38-1						38-44	48679	47705	3.65	230.86	-9.48	915.9	
FUEL OIL TANK NO 2C P 8-44-2						44-50	60550	59337	3.46	284.21	11.45	1349.7	
FUEL OIL TANK NO 2C S 8-44-1						44-50	60550	59337	3.46	284.21	-11.45	1349.7	
FUEL OIL TANK NO 3A P 8-50-2						50-57	80829	79212	3.39	341.56	12.97	2136.6	
FUEL OIL TANK NO 3A S 8-50-1						50-57	80829	79212	3.39	341.56	-12.97	2136.6	
FUEL OIL TANK NO 3C P 8-64-2						64-71	81063	79442	3.38	467.50	13.00	2136.6	
FUEL OIL TANK NO 3C S 8-64-1						64-71	81063	79442	3.38	467.50	-13.00	2136.6	
FUEL OIL TANK NO 4A P 8-71-2						71-78	81063	79442	3.38	530.50	13.00	2136.6	
FUEL OIL TANK NO 4A S 8-71-1						71-78	81063	79442	3.38	530.50	-13.00	2136.6	
FUEL OIL TANK NO 4B P 8-78-2						78-85	80921	79303	3.38	593.45	12.98	2126.2	
FUEL OIL TANK NO 4B S 8-78-1						78-85	80921	79303	3.38	593.45	-12.98	2126.2	
FUEL OIL TANK NO 6A P 8-99-2						99-103	75747	74232	23.02	771.74	16.07	705.8	
FUEL OIL TANK NO 6A S 8-99-1						99-103	75747	74232	23.02	771.74	-16.07	705.8	
FUEL OIL TANK NO 6B P 8-103-2						103-106	65123	63821	25.04	799.72	12.60	915.7	
FUEL OIL TANK NO 6B S 8-103-1						103-106	65123	63821	25.04	799.72	-12.60	915.7	
FUEL OIL TANK NO 6C P 8-106-2						106-109	57393	56245	27.61	825.97	17.25	4225.2	
FUEL OIL TANK NO 6C S 8-106-1						106-109	57393	56245	27.61	825.97	-17.25	4225.2	
SSDG FO SERVICE TANK 6.5-99-1						99-101	12010	11770	28.26	760.00	-7.00	95.3	
FUEL OIL SETTLING TANK 8-99-0						99-102	76446	74917	20.76	762.17	1.03	953.2	
FUEL OIL SERVICE TK P 6.5-85-2						85-90	30837	30221	27.72	647.49	48.45	61.4	
FUEL OIL SERVICE TK S 6.5-85-1						85-90	27764	27209	27.72	645.25	-48.45	55.3	
EM GEN FO SERVICE TK 02.5-103-1						102-103	2566	2515	120.49	785.12	-8.00	5.2	
TOTALS							1606601	1574470	11.40	512.14	0.08	37341.0	

LUBE OIL TANK SUMMARY									
TANK	FRAME	CAPACITY 100% FULL (GALLONS)	CAPACITY 98% FULL (GALLONS)	CENTERS @ 98%			MAX FREE SURF (FT-LT)		
				VCG ABV KL (FEET)	LCG FROM FP (FEET)	TCG FROM CL (FEET)			
ME/SSDG LO STORAGE TK P 6.5-91-2	91-93	15237	14933	27.76	685.72	48.40	33.2		
ME/SSDG LO STORAGE TK S 6.5-90-1	90-94	27389	26852	27.77	685.63	-48.39	59.9		
ME/SSDG LO SETTLING TK P 6.5-93-2	93-94	5990	5870	27.81	701.49	48.33	13.3		
CPP LO STORAGE TANK 5-93-2	93-94	2765	2710	38.83	701.50	51.12	0.9		
CPP LO SETTLING TANK 5-95-3	94-95	587	575	35.52	710.50	-16.00	0.5		
RG LO STORAGE TANK 5-92-2	92-93	2776	2721	38.83	692.50	51.12	0.9		
RG LO SETTLING TANK 5-95-5	94-95	1408	1380	36.99	710.50	-21.00	1.8		
ME LO SUMP TK S 7.5-86-1	86-89	5664	5551	8.14	643.36	-11.00	11.9		
ME LO SUMP TK P 7.5-86-4	86-89	5664	5551	8.14	643.36	11.00	11.9		
ME LO SUMP TK S 7.5-86-3	86-89	5659	5546	8.14	643.36	-28.17	11.9		
ME LO SUMP TK P 7.5-86-6	86-89	5659	5546	8.14	643.36	28.17	11.9		
TOTALS		78798	77235	23.13	676.13	-0.69	158.1		

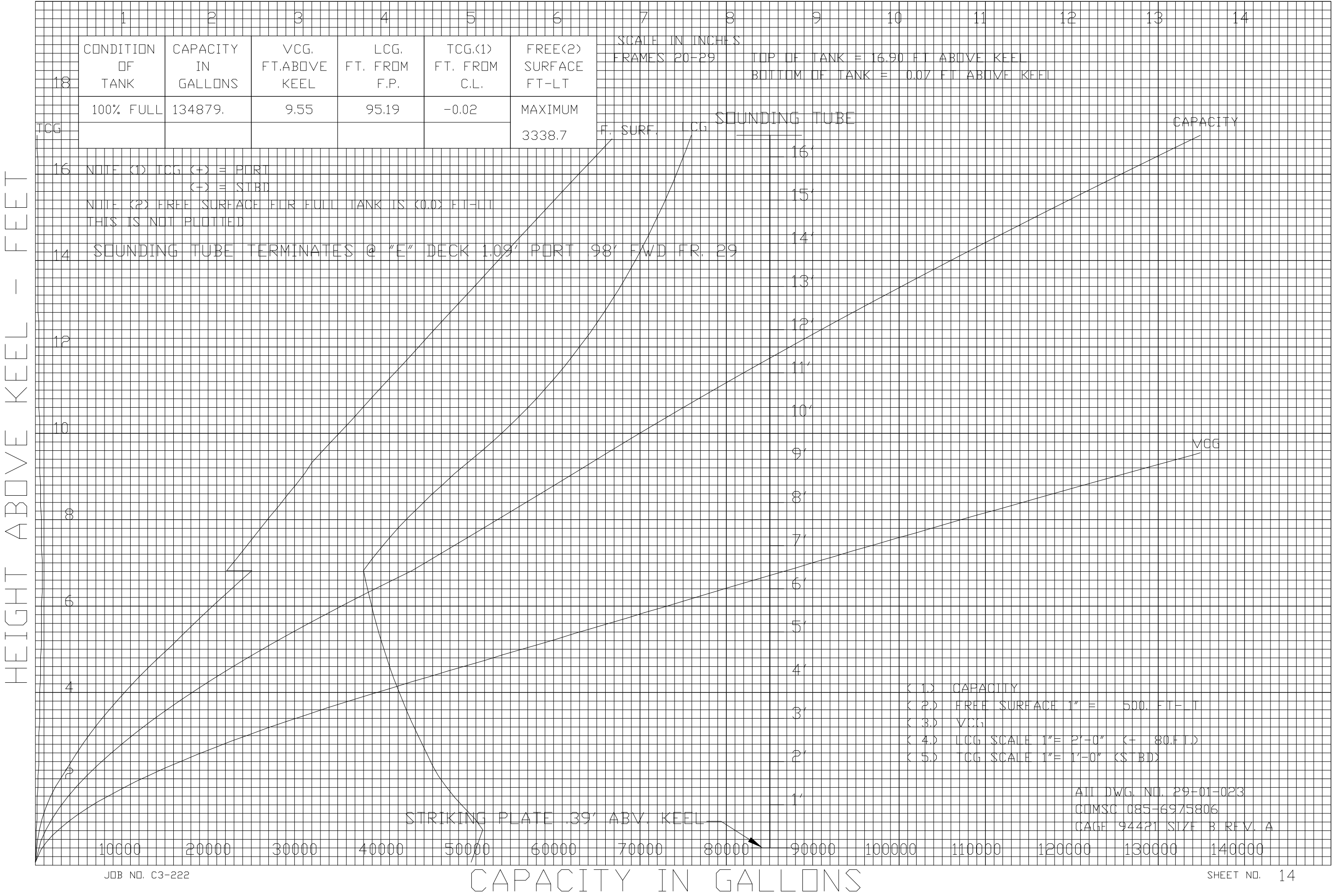
MISCELLANEOUS TANK SUMMARY								
TANK	FRAME	CAPACITY 100% FULL GALLONS	CAPACITY 98% FULL GALLONS	CENTERS @ 98%			MAX FREE SURF (FT-LT)	
				VCG ABV KL (FEET)	LCG FROM FP (FEET)	TCG FROM CL (FEET)		
CSA WASTE OIL TANK	8-87-2	86-89	9067	8886	4.23	647.31	19.54	18.0
CSA OILY WASTE HOLDING TANK	8-87-4	87-88	2073	2031	5.03	647.36	35.61	2.6
ENGINE ROOM WASTE OIL TANK	8-94-2	94-97	8199	8035	8.77	714.88	4.04	23.2
ENGINE ROOM OILY WASTE HOLDING TK	8-93-2	93-94	2418	2369	7.14	700.33	4.04	7.0
OILY WASTE DRAIN COLLECTING TANK	7.5-86-2	86-87	627	615	5.97	636.26	3.00	1.9
USED OIL TANK	8-93-3	93-96	26453	25917	8.47	709.13	-21.09	1041.8
FO OVERFLOW TANK	8-93-1	93-96	8209	8045	8.03	708.11	-4.04	23.2
STERN TUBE LO DRAIN TANK P	7.5-97-2	97-98	103	101	11.23	734.13	17.58	0.3
STERN TUBE LO DRAIN TANK S	7.5-97-1	97-98	103	101	11.23	734.13	-17.58	0.3
VCHT TANK	2.5-91-2	91-92	2352	2305	67.26	681.01	45.17	5.5
WASTE WATER TANK	2.5-94-2	94-95	11707	11473	70.33	708.05	44.25	10.9
TOTALS			71311	69878	21.82	698.27	6.19	1134.7

REVISIONS							SIZE B	AVONDALE DWG NO				REV
								C3-222		29-01-023		A
								CAGE		DWG NO		
								94421		COMSC		085-6975806
										SH NO		12

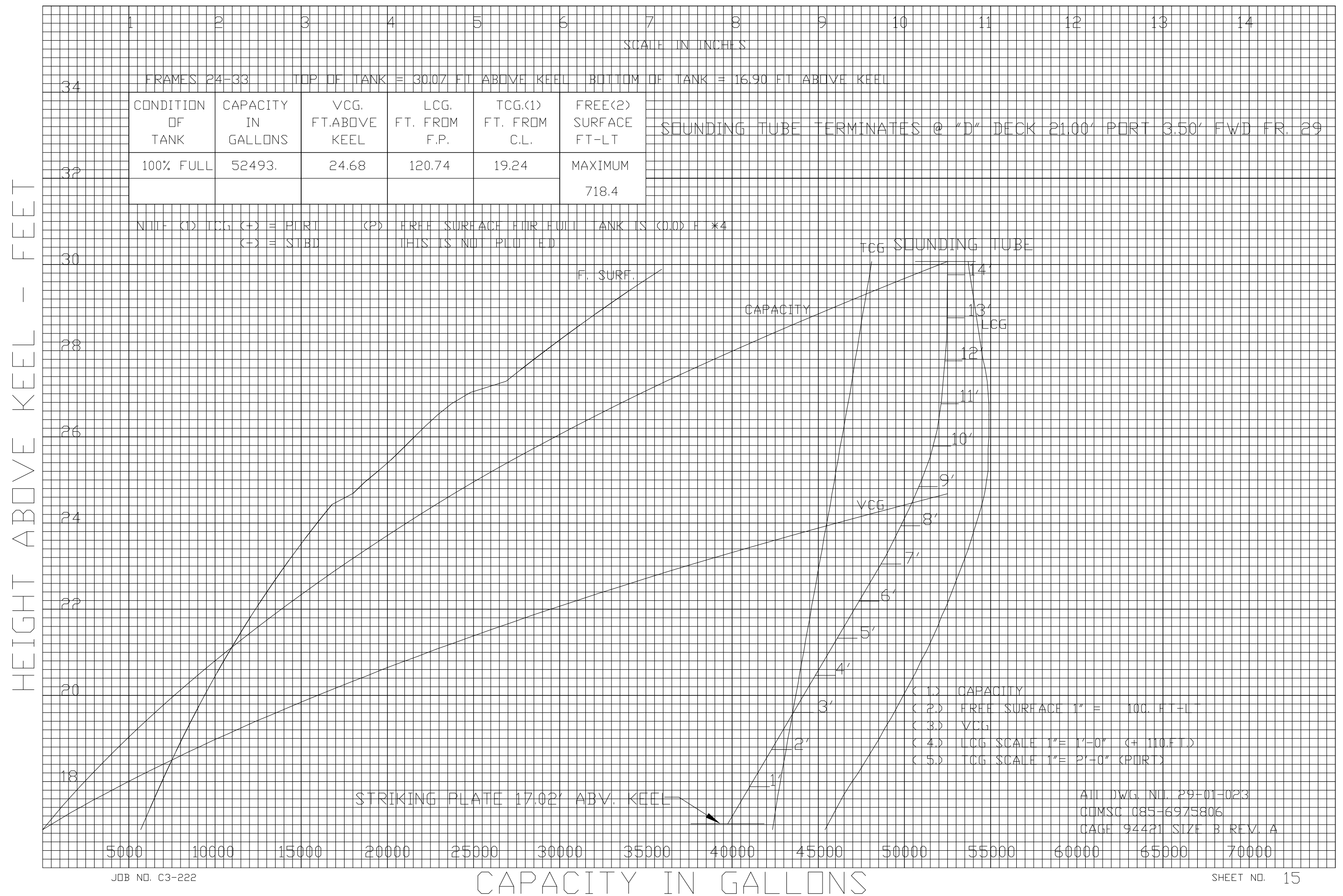
TANK: FOREPEAK BALLAST TANK 8-K-0



TANK: FWD SW BALLAST TANK 8-20-0

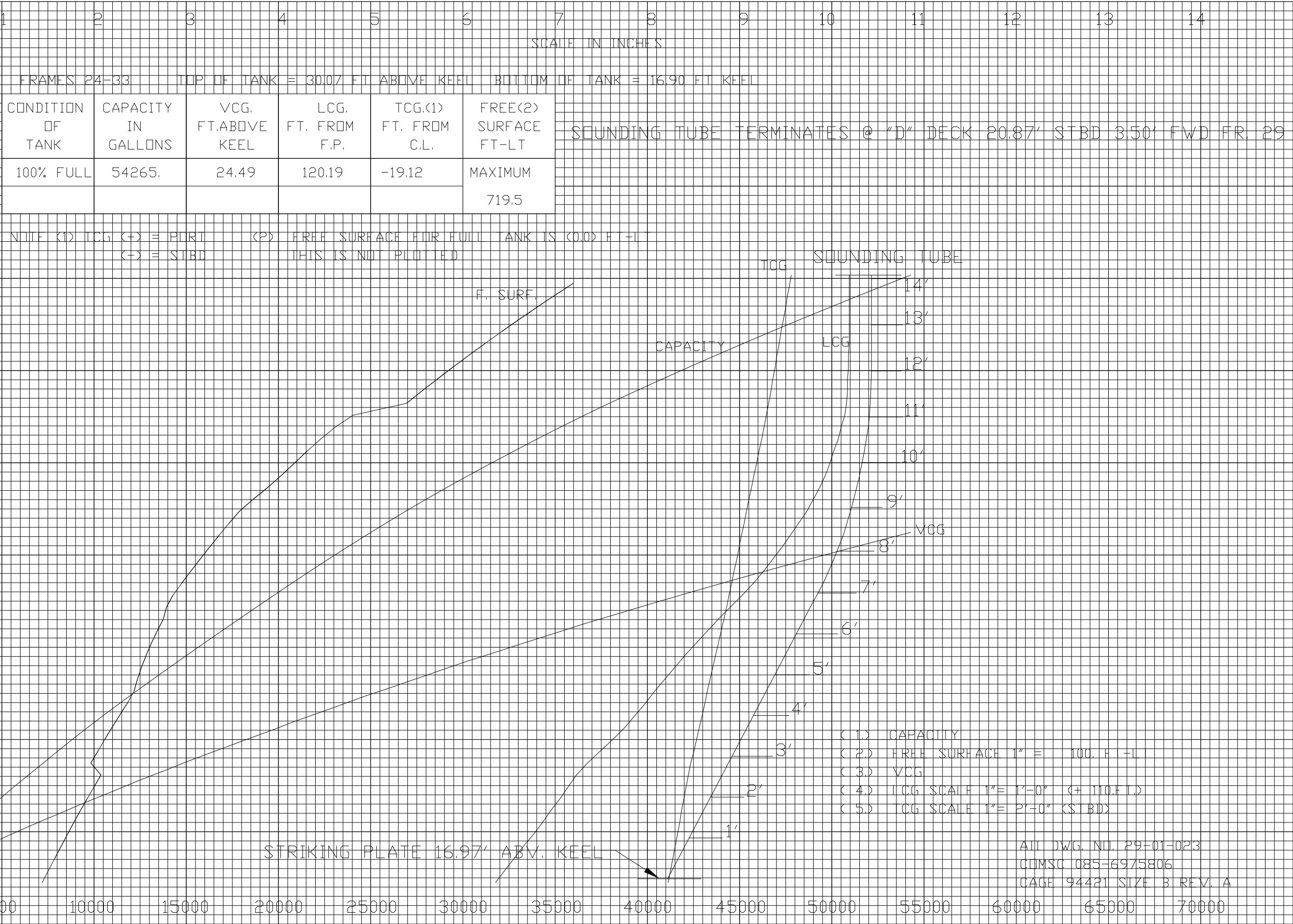


TANK: NO 1 WING BALLAST TANK P 6-24-2

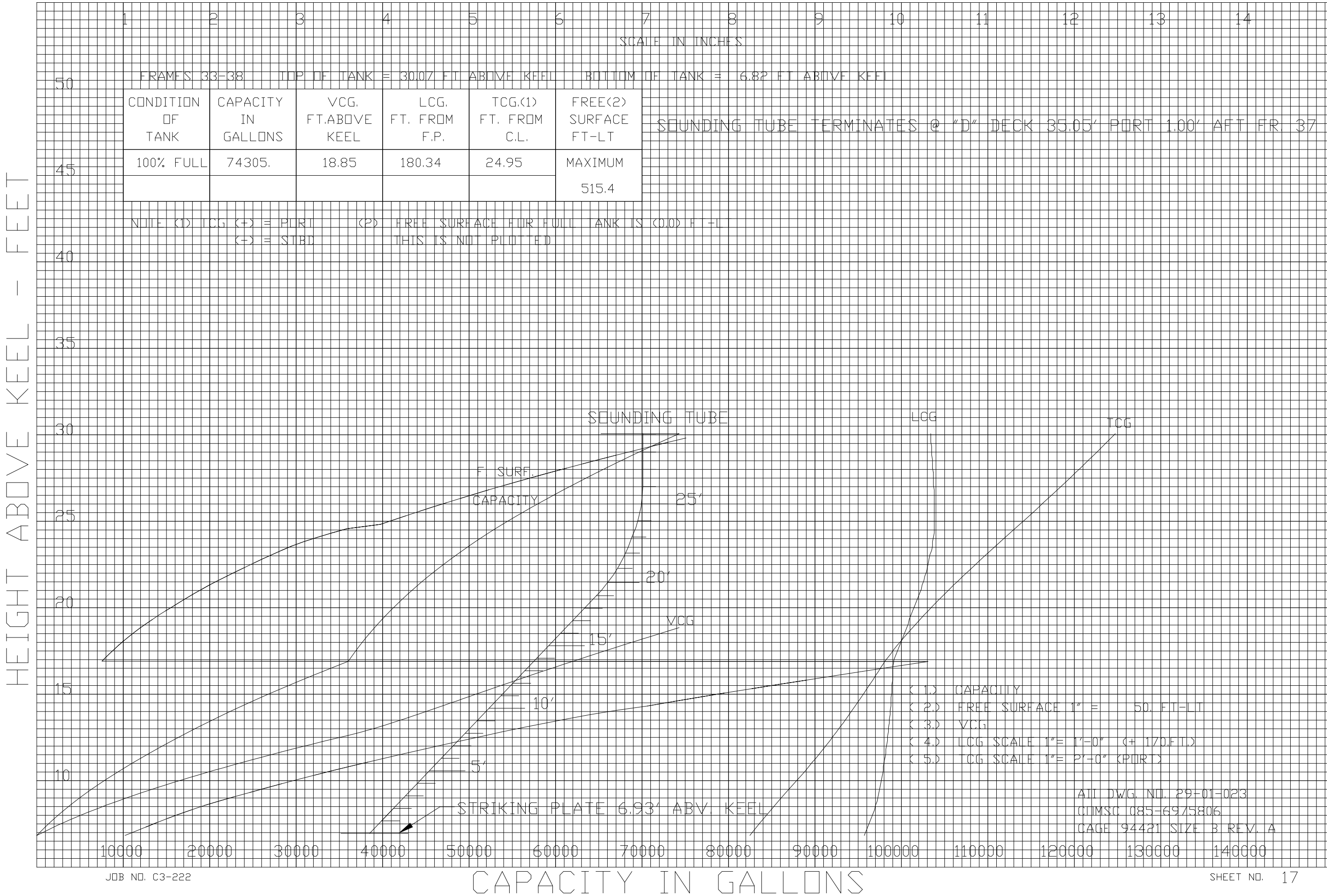


TANK: NO 1 WING BALLAST TANK S 6-24-1

HEIGHT ABOVE KEEL - FEET



TANK: NO 2A WING BALLAST TANK P 7-33-2



TANK: NO 2A WING BALLAST TANK S 7-33-1

HEIGHT ABOVE KEEL - FEET

1 2 3 4 5 6 7 8 9 10 11 12 13 14

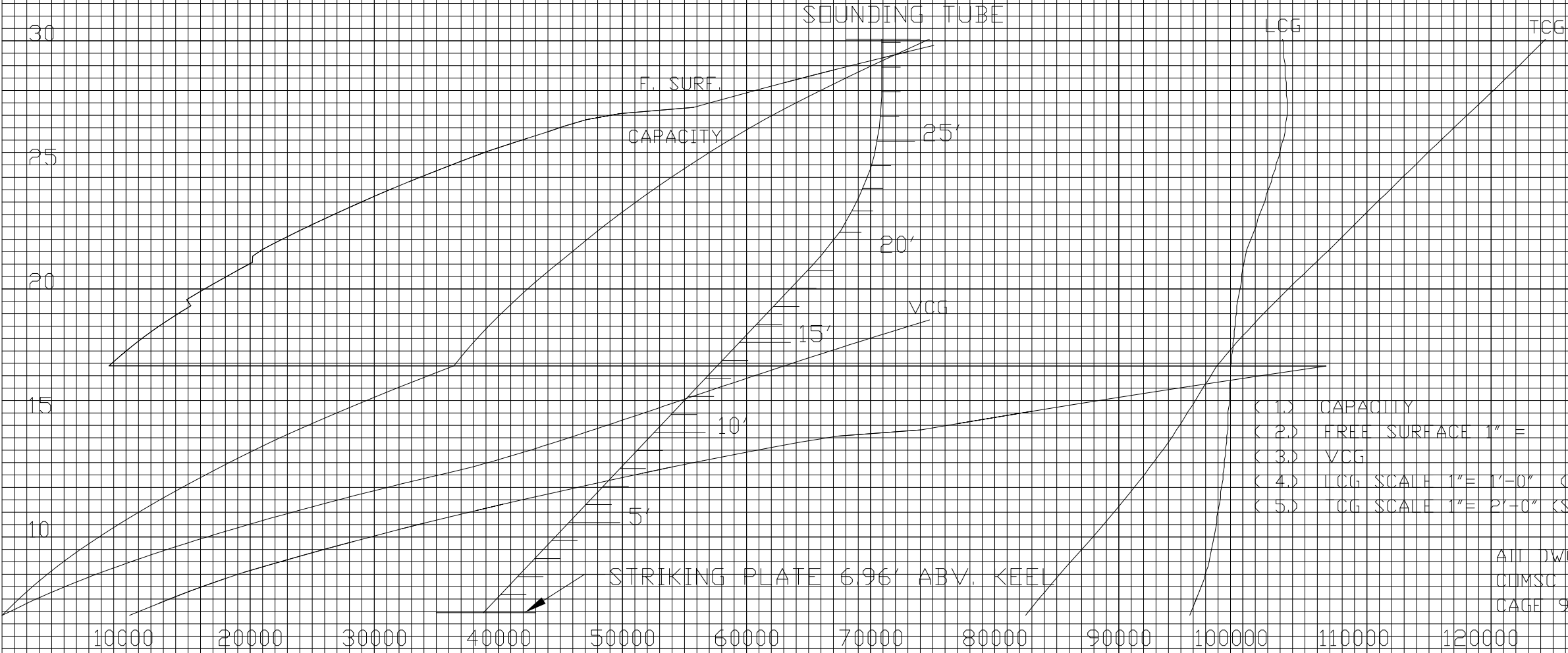
SCALE IN INCHES

FRAMES 33-38 TOP OF TANK = 30.07 FT ABOVE KEEL BOTTOM OF TANK = 6.82 FT ABOVE KEEL

CONDITION OF TANK	CAPACITY IN GALLONS	VCG, FT.ABOVE KEEL	LCG, FT. FROM F.P.	TCG<1> FT. FROM C.L.	FREE<2> SURFACE FT-LT
100% FULL	74749.	18.75	180.32	-24.88	MAXIMUM
					533.5

SOUNDING TUBE TERMINATES @ "D" DECK 35.00' STBD 1.00' AFT FR. 37

NOTE <1> TCG (+) = PORT (-) = STBD <2> FREE SURFACE FOR FULL TANK IS <0.0> FT-LT THIS IS NOT PLOTTED



- < 1> CAPACITY
- < 2> FREE SURFACE 1" = 50. FT-LT
- < 3> VCG
- < 4> LCG SCALE 1" = 1'-0" (+ 1/0 FT)
- < 5> TCG SCALE 1" = 2'-0" (STBD)

ALL DWG. NO. 29-01-023
CUMSC 085-6975806
CAGE 94421 SIZE B REV. A

TANK: NO 2B WING BALLAST TANK P OR S 8-38-4/3

HEIGHT ABOVE KEEL - FEET

1 2 3 4 5 6 7 8 9 10 11 12 13 14

SCALE IN INCHES

FRAMES 38-44

TOP OF TANK = 30.07 FT ABOVE KEEL

BOTTOM OF TANK = 2.89 FT ABOVE KEEL

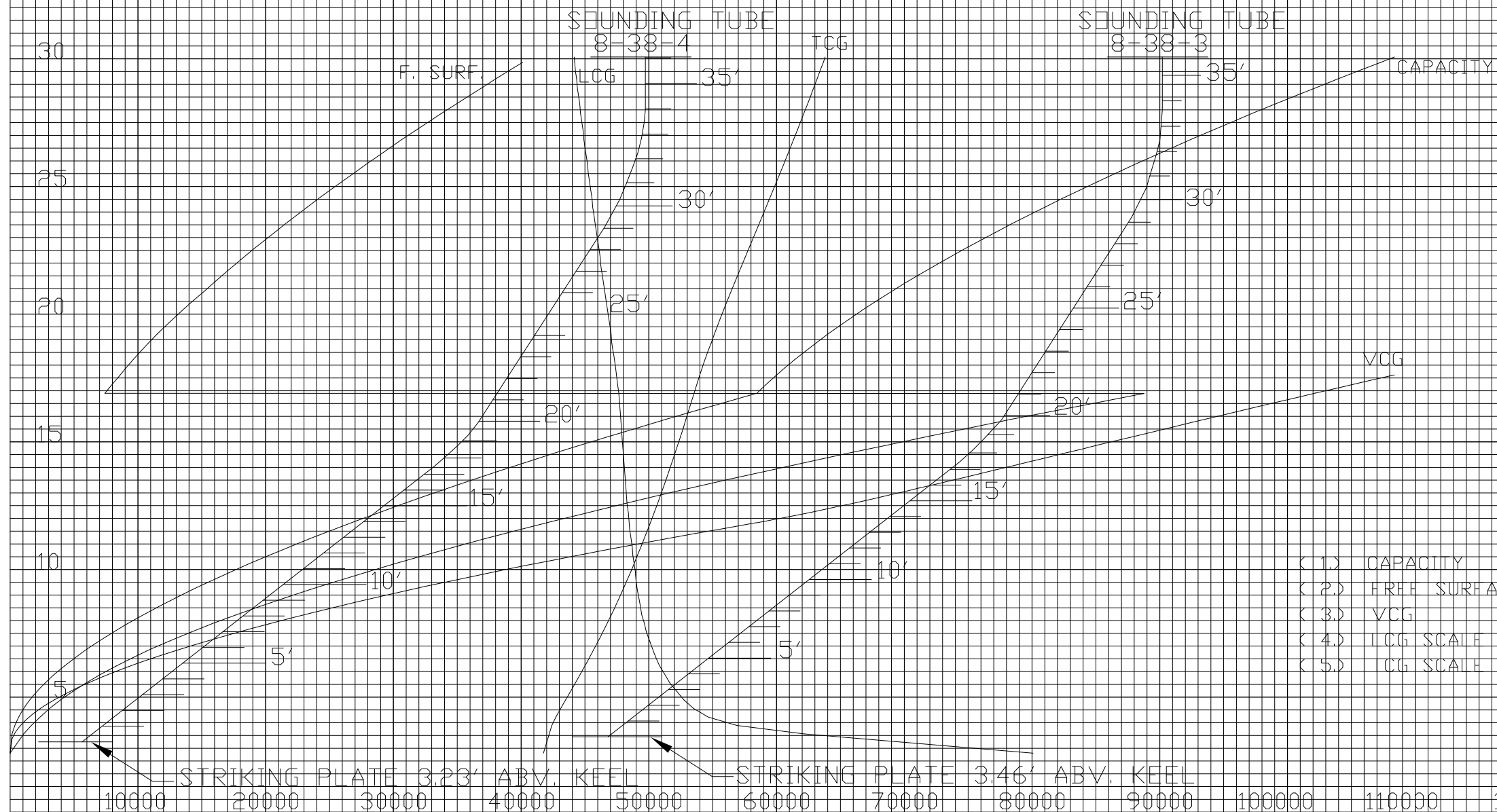
CONDITION OF TANK	CAPACITY IN GALLONS	VCG, FT.ABOVE KEEL	LCG, FT. FROM F.P.	TCG<1> FT. FROM C.L.	FREE<2> SURFACE FT-LT
100% FULL	108367.	17.62	228.83	31.90	MAXIMUM
					887.6

S.T. 8-38-3 TERMINATES @ "D" DECK 45.12' STBD .83' AFT FR. 43

S.T. 8-38-4 TERMINATES @ "D" DECK 45.17' PORT .81' AFT FR. 43

NOTE <1> TCG (+) = PORT
(-) = STBD

<2> FREE SURFACE FOR FULL TANK IS <0.0> FT-LT
THIS IS NOT PLOTTED

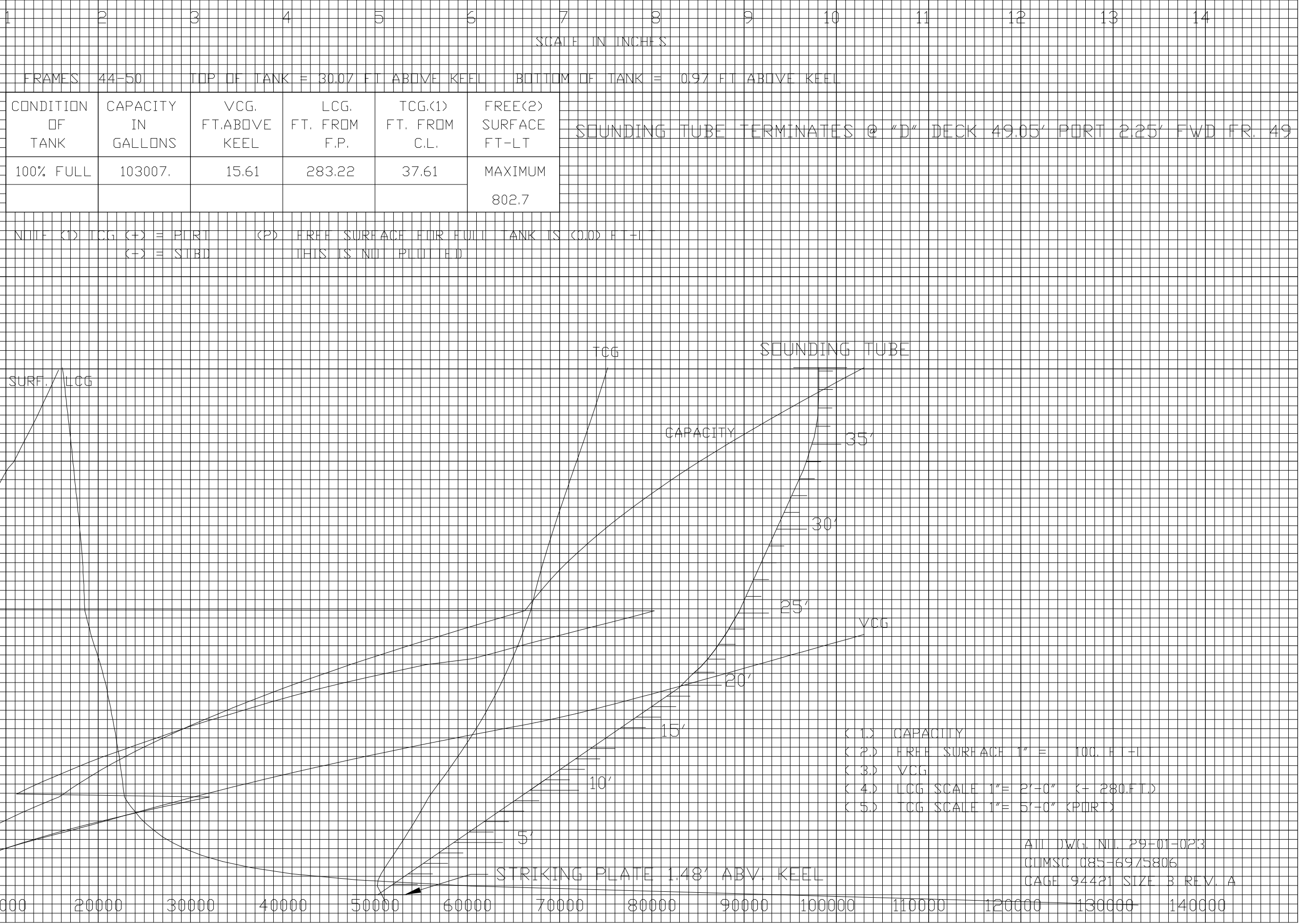


- < 1> CAPACITY
- < 2> FREE SURFACE 1" = 100. FT-LT
- < 3> VCG
- < 4> LCG SCALE 1" = 2'-0" (+ 220 FT.)
- < 5> CG SCALE 1" = 5'-0" (PORT)

ALL DWG. NO. 29-01-023
COMSC 085-6975806
CAGE 94421 SIZE B REV. A

TANK: NO 2C WING BALLAST TANK P 8-44-4

HEIGHT ABOVE KEEL - FEET



TANK: NO 2C WING BALLAST TANK S 8-44-3

HEIGHT ABOVE KEEL - FEET

1 2 3 4 5 6 7 8 9 10 11 12 13 14

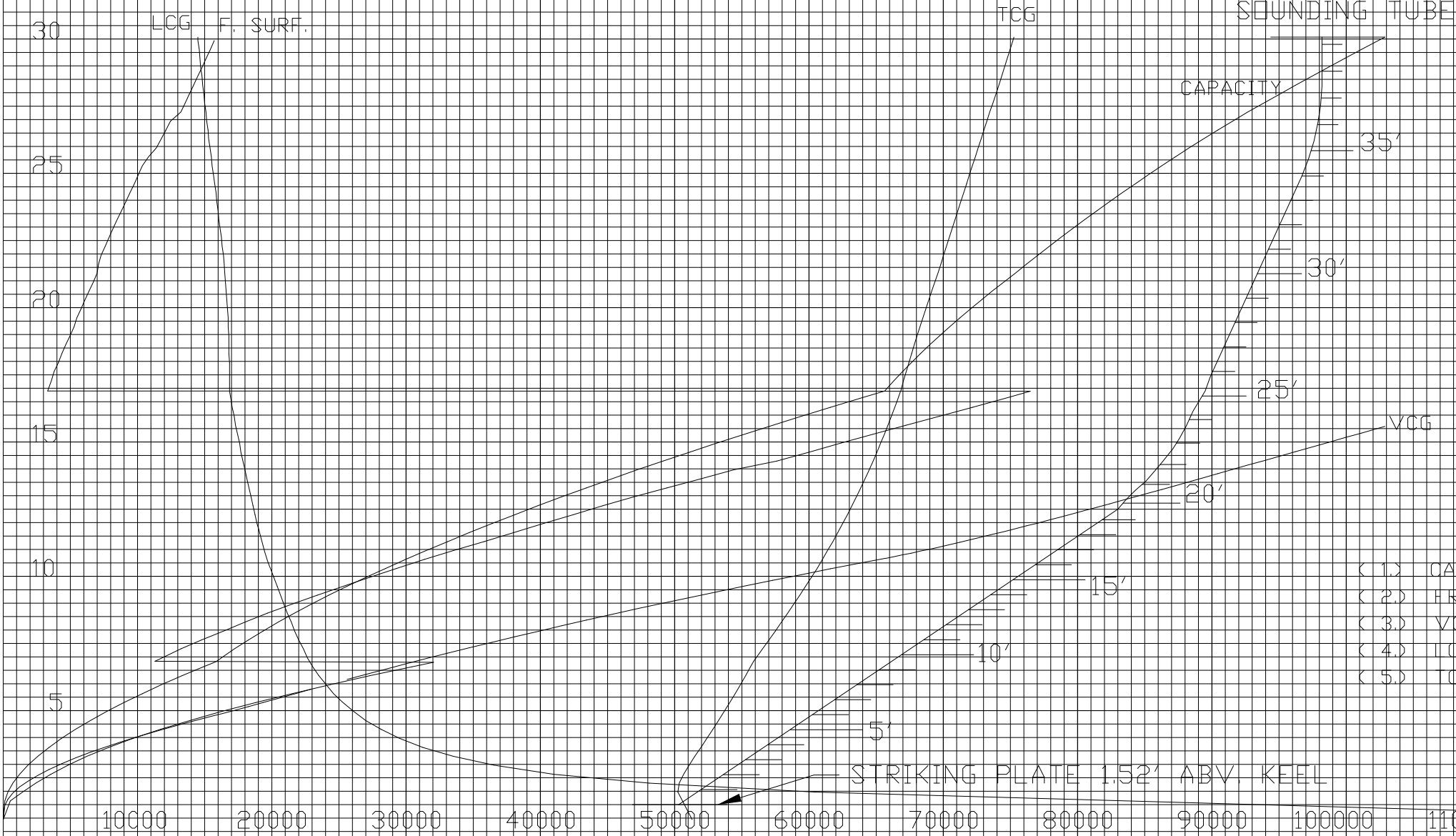
SCALE IN INCHES

FRAMES 44-50 TOP OF TANK = 30.07 FT ABOVE KEEL BOTTOM OF TANK = 0.97 FT ABOVE KEEL

CONDITION OF TANK	CAPACITY IN GALLONS	VCG, FT.ABOVE KEEL	LCG, FT. FROM F.P.	TCG<1> FT. FROM C.L.	FREE<2> SURFACE FT-LT
100% FULL	102877.	15.58	282.90	-37.63	MAXIMUM
					764.8

SOUNDING TUBE TERMINATES @ "D" DECK 49.10' STBD 2.25' FWD FR. 49

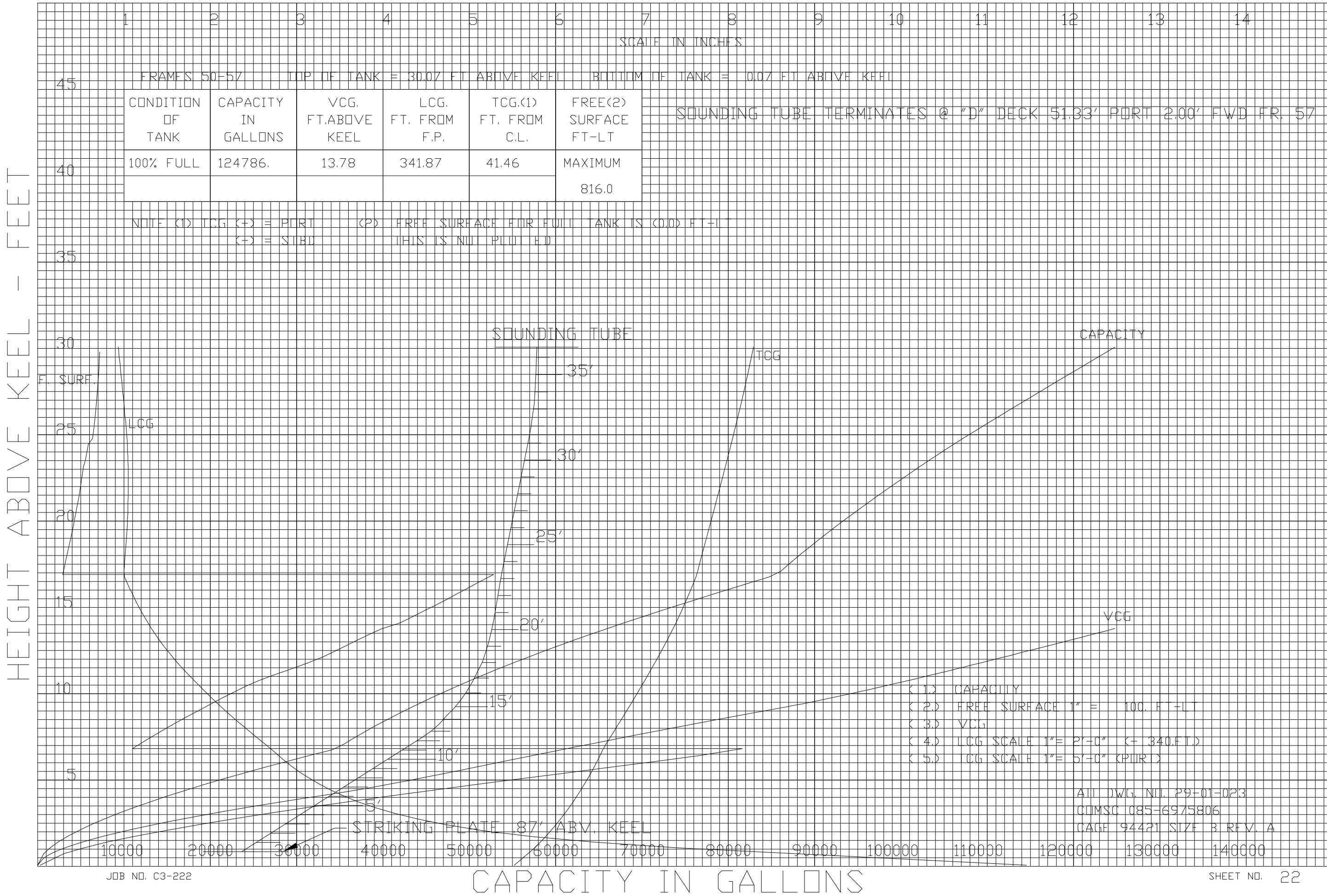
NOTE <1> TCG (+) = PORT (-) = STBD <2> FREE SURFACE FOR FULL TANK IS (0.0) FT-LT THIS IS NOT PLOTTED



- < 1. > CAPACITY
- < 2. > FREE SURFACE 1" = 100. FT-LT
- < 3. > VCG
- < 4. > LCG SCALE 1"= 2'-0" (+ 280.FT.)
- < 5. > TCG SCALE 1"= 5'-0" (STBD)

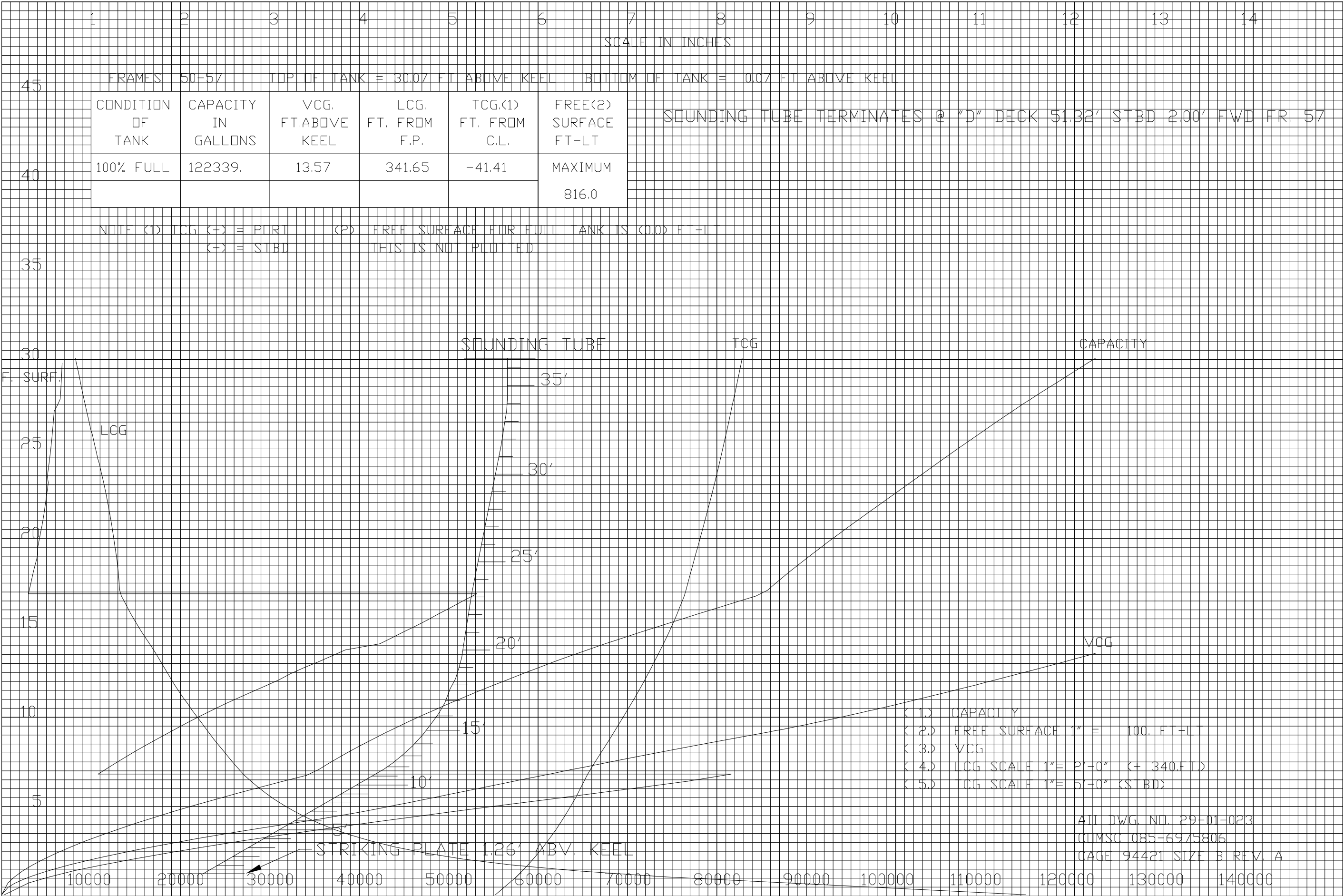
ALL DWG. NO. 29-01-023
COMSC 085-6975806
CAGE 94421 SIZE B REV. A

TANK: NO 3A WING BALLAST TANK P 8-50-4



TANK: NO 3A WING BALLAST TANK S 8-50-3

HEIGHT ABOVE KEEL - FEET

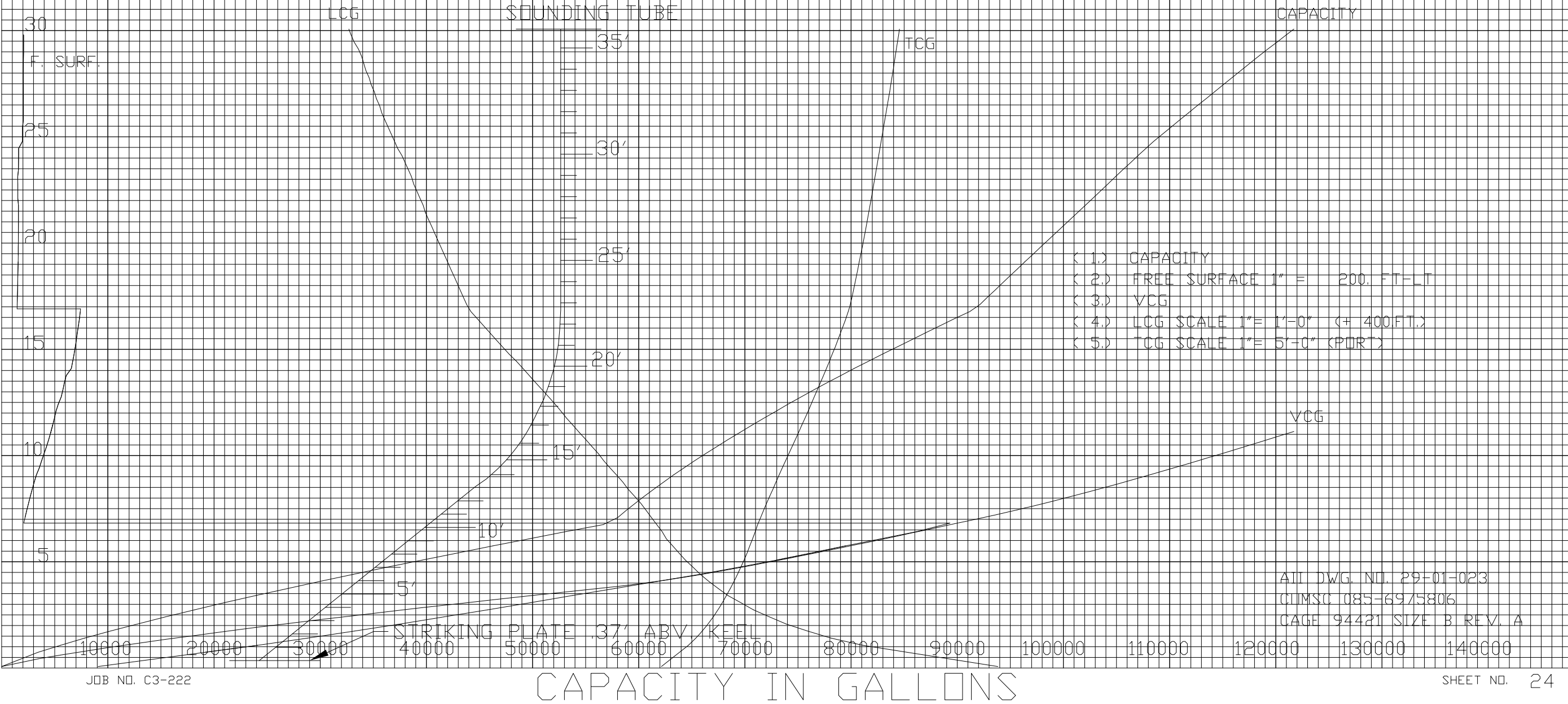


TANK: NO 3B WING BALLAST TANK P 8-57-2

HEIGHT ABOVE KEEL - FEET

1	2	3	4	5	6	7	8	9	10	11	12	13	14
SCALE IN INCHES													
FRAMES 57-64		TOP OF TANK = 30.07 FT ABOVE KEEL				BOTTOM OF TANK = 0.07 FT ABOVE KEEL							
CONDITION OF TANK	CAPACITY IN GALLONS	VCG. FT.ABOVE KEEL	LCG. FT. FROM F.P.	TCG.<1> FT. FROM C.L.	FREE<2> SURFACE FT-LT	SOUNDING TUBE TERMINATES @ "D" DECK 51.08' PORT 2.00' FWD FR. 61							
100% FULL	121702.	11.13	403.27	42.28	MAXIMUM								
					1786.4								

NOTE <1> TCG <+> = PORT <-> = STBD <2> FREE SURFACE FOR FULL TANK IS <0.0> FT-LT THIS IS NOT PLOTTED



TANK: NO 3B WING BALLAST TANK S 8-57-1

HEIGHT ABOVE KEEL - FEET

1 2 3 4 5 6 7 8 9 10 11 12 13 14

SCALE IN INCHES

45 FRAMES 57-64 TOP OF TANK = 30.07 FT ABOVE KEEL BOTTOM OF TANK = 0.07 FT ABOVE KEEL

CONDITION OF TANK	CAPACITY IN GALLONS	VCG, FT.ABOVE KEEL	LCG, FT. FROM F.P.	TCG.<1> FT. FROM C.L.	FREE<2> SURFACE FT-LT
100% FULL	127398.	11.27	404.93	-42.61	MAXIMUM
					1786.4

SOUNDING TUBE TERMINATES @ "D" DECK 51.08' STBD 2.00' FWD FR. 61

NOTE <1> TCG <+> = PORT <-> = STBD <2> FREE SURFACE FOR FULL TANK IS <0.0> FT-LT THIS IS NOT PLOTTED

35

30

F. SURF.

25

20

15

10

5

SOUNDING TUBE

LCG

TCG

CAPACITY

35'

30'

25'

20'

15'

10'

5'

- < 1.> CAPACITY
- < 2.> FREE SURFACE 1" = 200. FT-LT
- < 3.> VCG
- < 4.> LCG SCALE 1"= 1'-0" <+ 400FT.>
- < 5.> TCG SCALE 1"= 5'-0" <STBD>

VCG

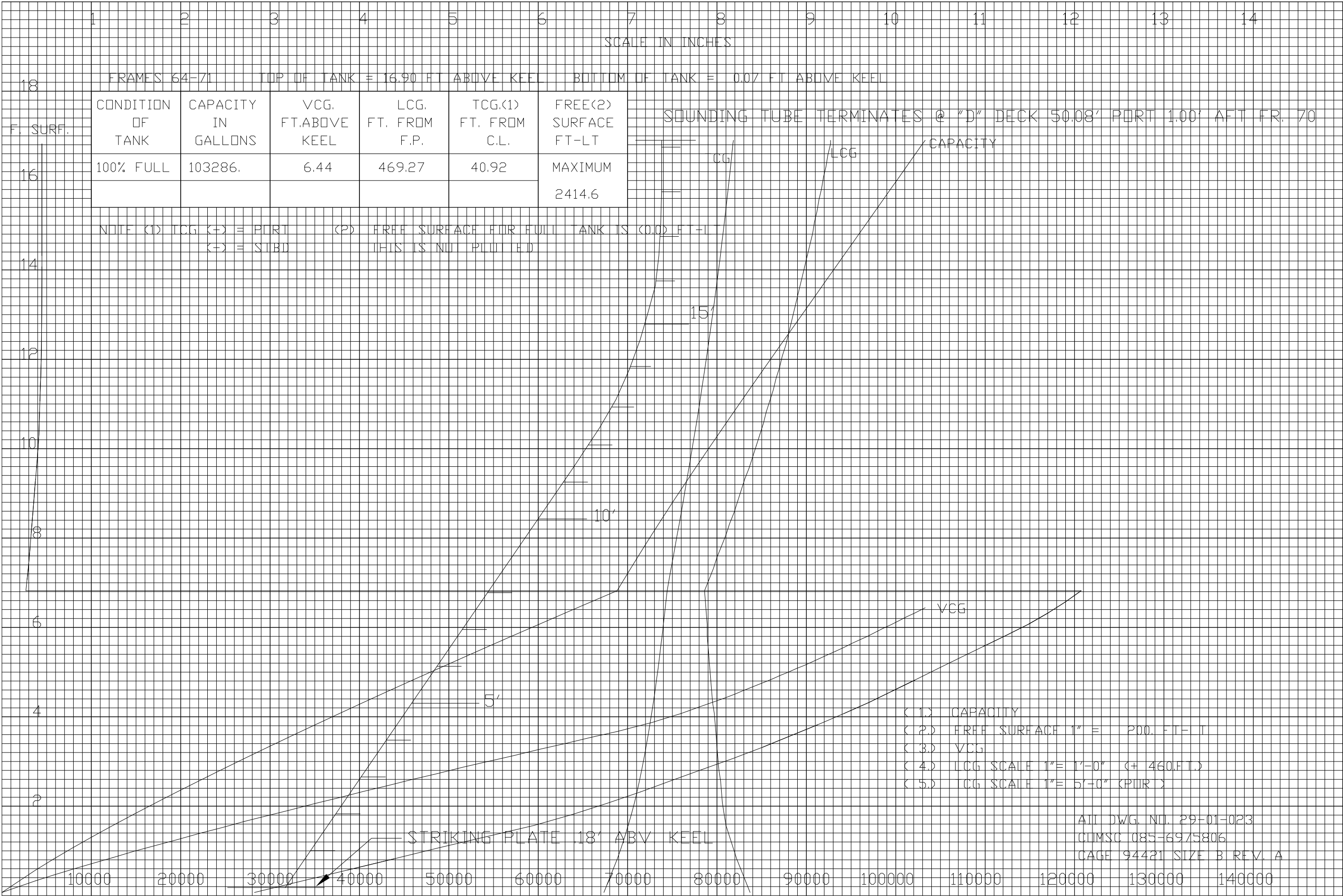
STRIKING PLATE .47' ABM. KEEL

10000 20000 30000 40000 50000 60000 70000 80000 90000 100000 110000 120000 130000 140000

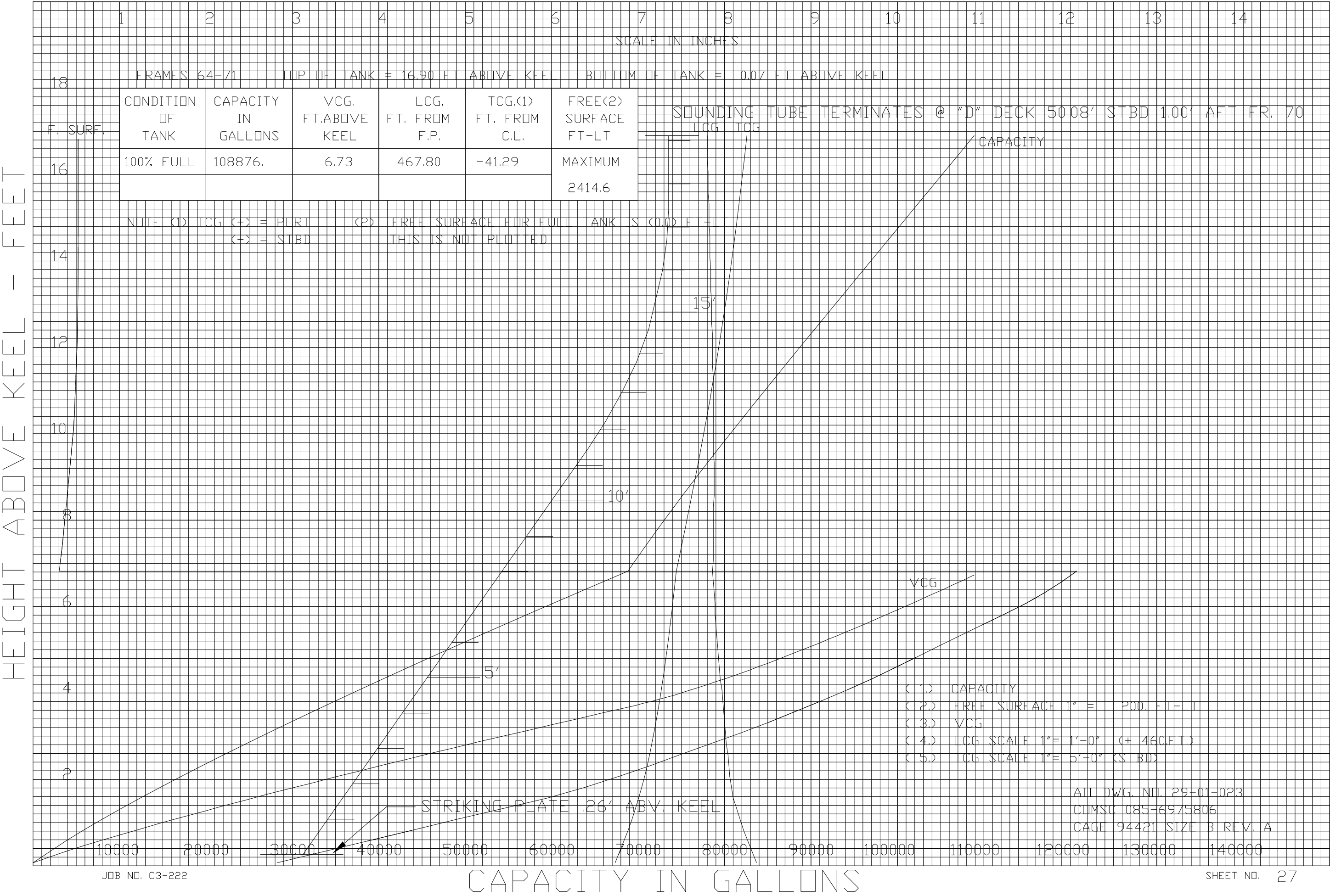
CAPACITY IN GALLONS

TANK: NO 3C WING BALLAST TANK P 8-64-4

HEIGHT ABOVE KEEL - FEET



TANK: NO 3C WING BALLAST TANK S 8-64-3



TANK: NO 4A WING BALLAST TANK P 8-71-4

HEIGHT ABOVE KEEL - FEET

1 2 3 4 5 6 7 8 9 10 11 12 13 14

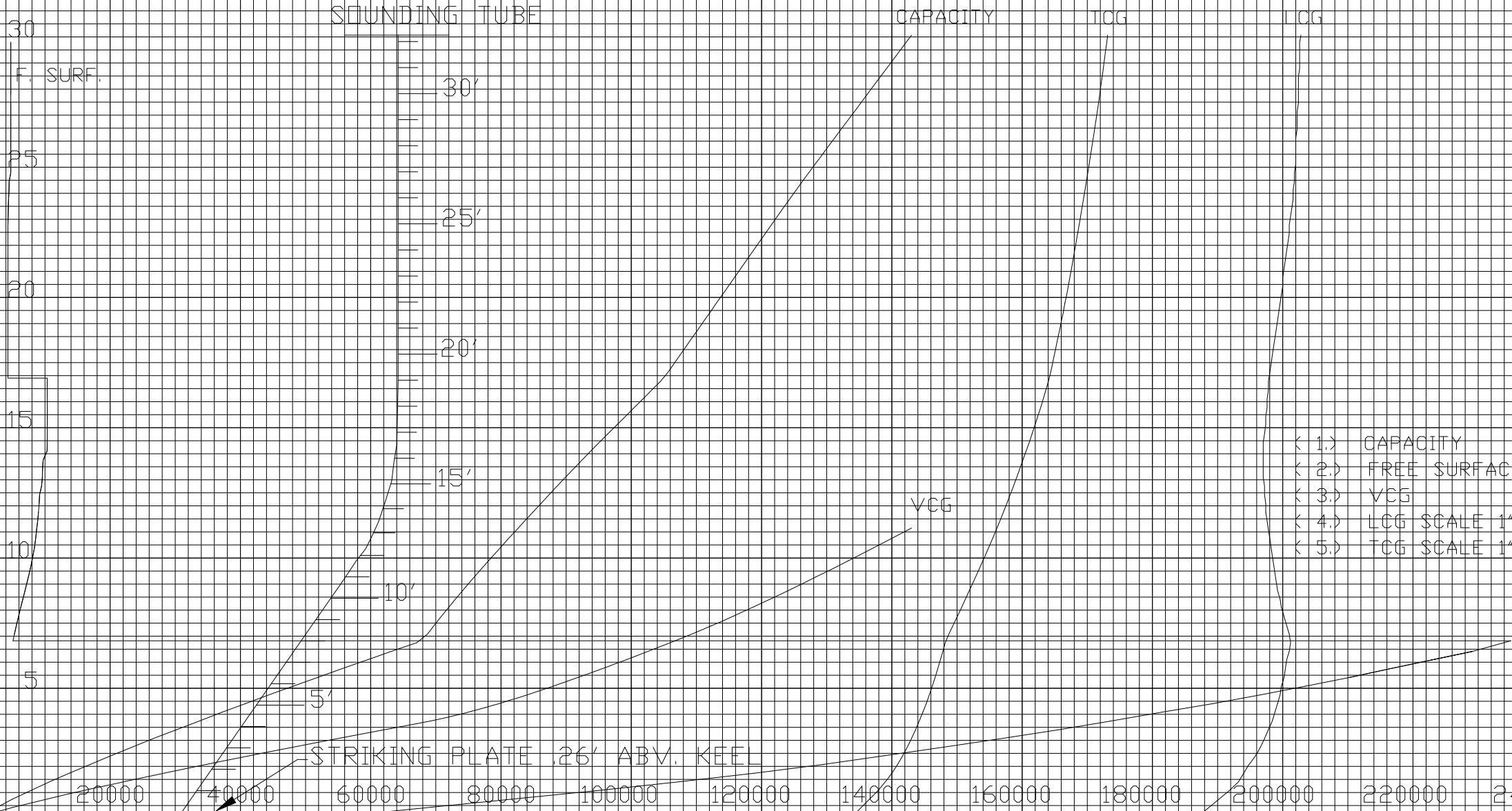
SCALE IN INCHES

FRAMES 71-78 TOP OF TANK = 30.07 FT ABOVE KEEL BOTTOM OF TANK = 0.07 FT ABOVE KEEL

CONDITION OF TANK	CAPACITY IN GALLONS	VCG, FT.ABOVE KEEL	LCG, FT. FROM F.P.	TCG.(1) FT. FROM C.L.	FREE(2) SURFACE FT-LT
100% FULL	143013.	11.15	530.14	43.28	MAXIMUM
					2350.3

SOUNDING TUBE TERMINATES @ "D" DECK 50.08' PORT 2.00' FWD FR. 72

NOTE (1) TCG (+) = PORT (-) = STBD (2) FREE SURFACE FOR FULL TANK IS (0.0) FT-LT THIS IS NOT PLOTTED

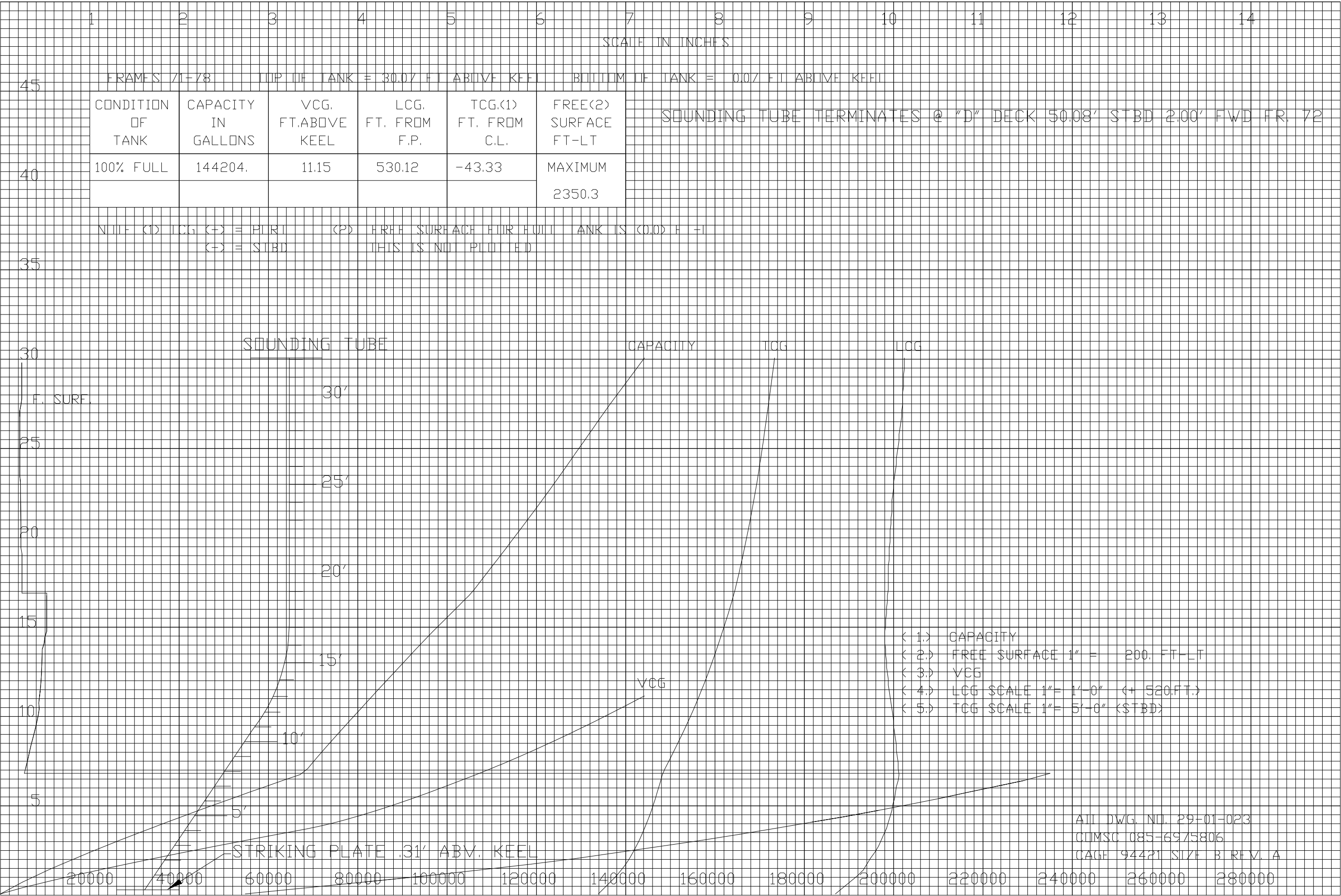


- (1) CAPACITY
- (2) FREE SURFACE 1" = 200. FT-LT
- (3) VCG
- (4) LCG SCALE 1"= 1'-0" (+ 520.FT.)
- (5) TCG SCALE 1"= 5'-0" (PORT)

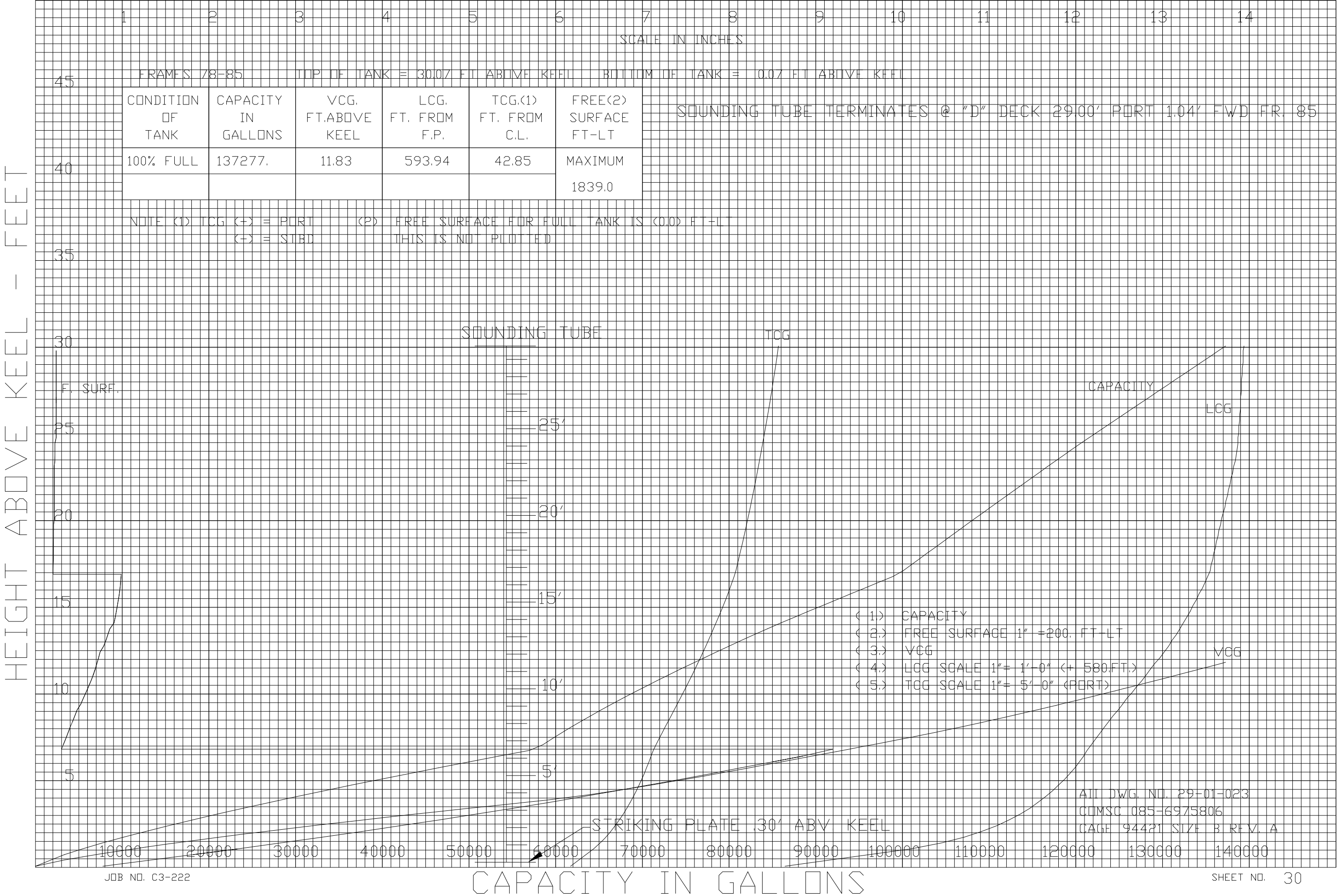
ALL DWG. NO. 29-01-023
CUMSC 085-6975806
CAGE 94421 SIZE B REV. A

TANK: NO 4A WING BALLAST TANK S 8-71-3

HEIGHT ABOVE KEEL - FEET

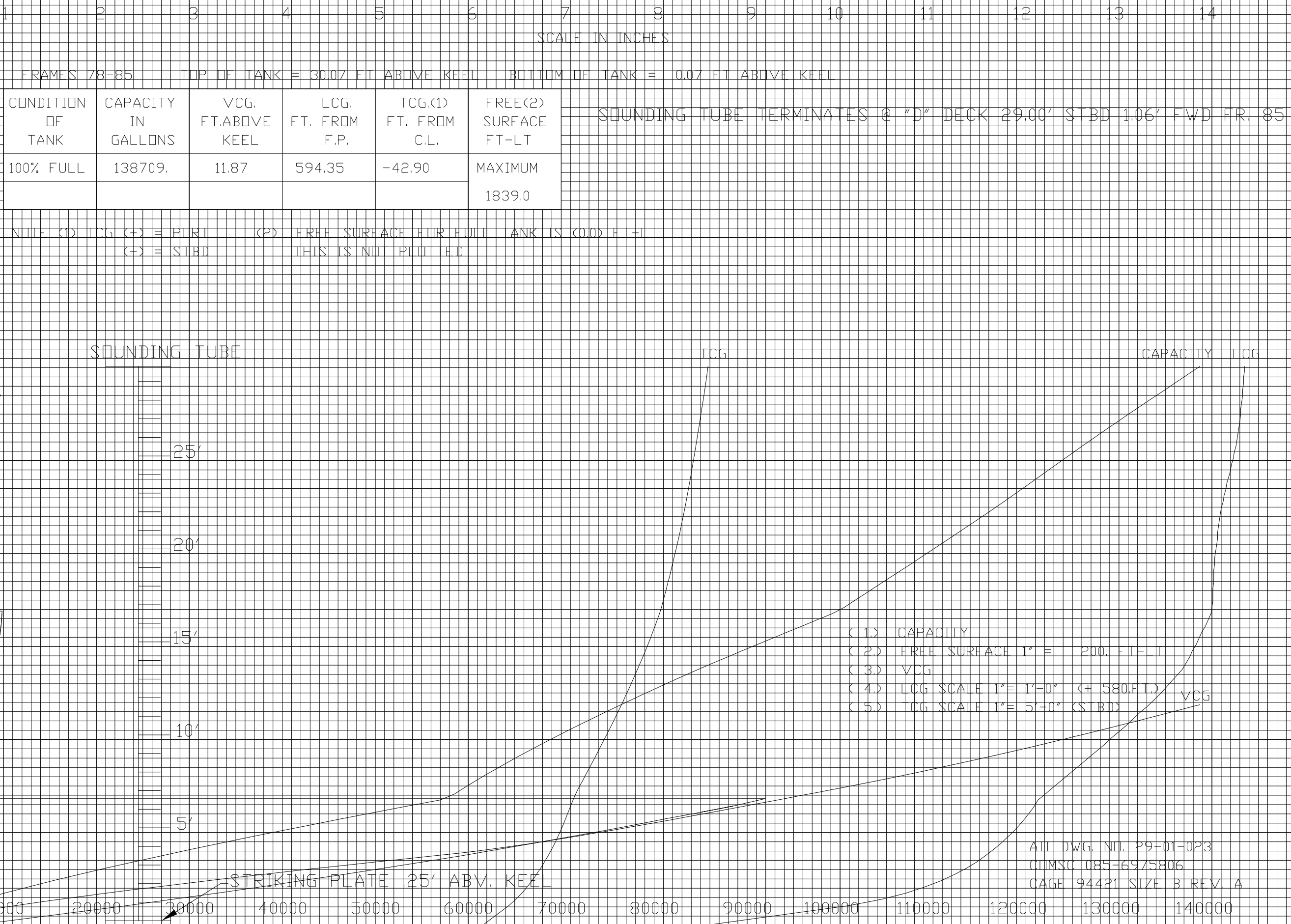


TANK: NO 4B WING BALLAST TANK P 8-78-4



TANK: NO 4B WING BALLAST TANK S 8-78-3

HEIGHT ABOVE KEEL - FEET



TANK: NO 6A WING BALLAST TANK P OR S 8-99-4/3

HEIGHT ABOVE KEEL - FEET

1 2 3 4 5 6 7 8 9 10 11 12 13 14

SCALE IN INCHES

55

FRAMES 99-103

TOP OF TANK = 31.57 FT ABOVE KEEL

BOTTOM OF TANK = 11.88 FT ABOVE KEEL

CONDITION OF TANK	CAPACITY IN GALLONS	VCG, FT.ABOVE KEEL	LCG, FT. FROM F.P.	TCG.(1) FT. FROM C.L.	FREE(2) SURFACE FT-LT
100% FULL	79092.	24.73	767.41	36.11	MAXIMUM
					1330.7

S.T. 8-99-3 TERMINATES @ "D" DECK 19.00' STBD 1.00' FWD FR. 99

S.T. 8-99-4 TERMINATES @ "D" DECK 33.00' PORT .75' FWD FR. 99

50

NOTE (1) TCG (+) = PORT (-) = STBD (2) FREE SURFACE FOR FULL TANK IS (0.0) FT-LT THIS IS NOT PLOTTED

45

40

35

30

25

20

15

SOUNDING TUBE
8-99-3

20'

15'

10'

5'

STRIKING PLATE
12.72' ABV. KEEL

SOUNDING TUBE
8-99-4

20'

15'

10'

5'

STRIKING PLATE
13.22' ABV. KEEL

LOG

TCG/

CAPACITY

VCG

F. SURF.

- (1) CAPACITY
- (2) FREE SURFACE 1" = 100. FT-LT
- (3) VCG
- (4) LCG SCALE 1"= 2'-0" (+ 750.FT.)
- (5) TCG SCALE 1"= 5'-0" (PORT)

ALL DWG. NO. 29-01-023
COMSC 085-6975806
CAGE 94421 SIZE B REV. A

TANK: NO 6B WING BALLAST TANK P OR S 8-103-4/3

HEIGHT ABOVE KEEL - FEET

1 2 3 4 5 6 7 8 9 10 11 12 13 14

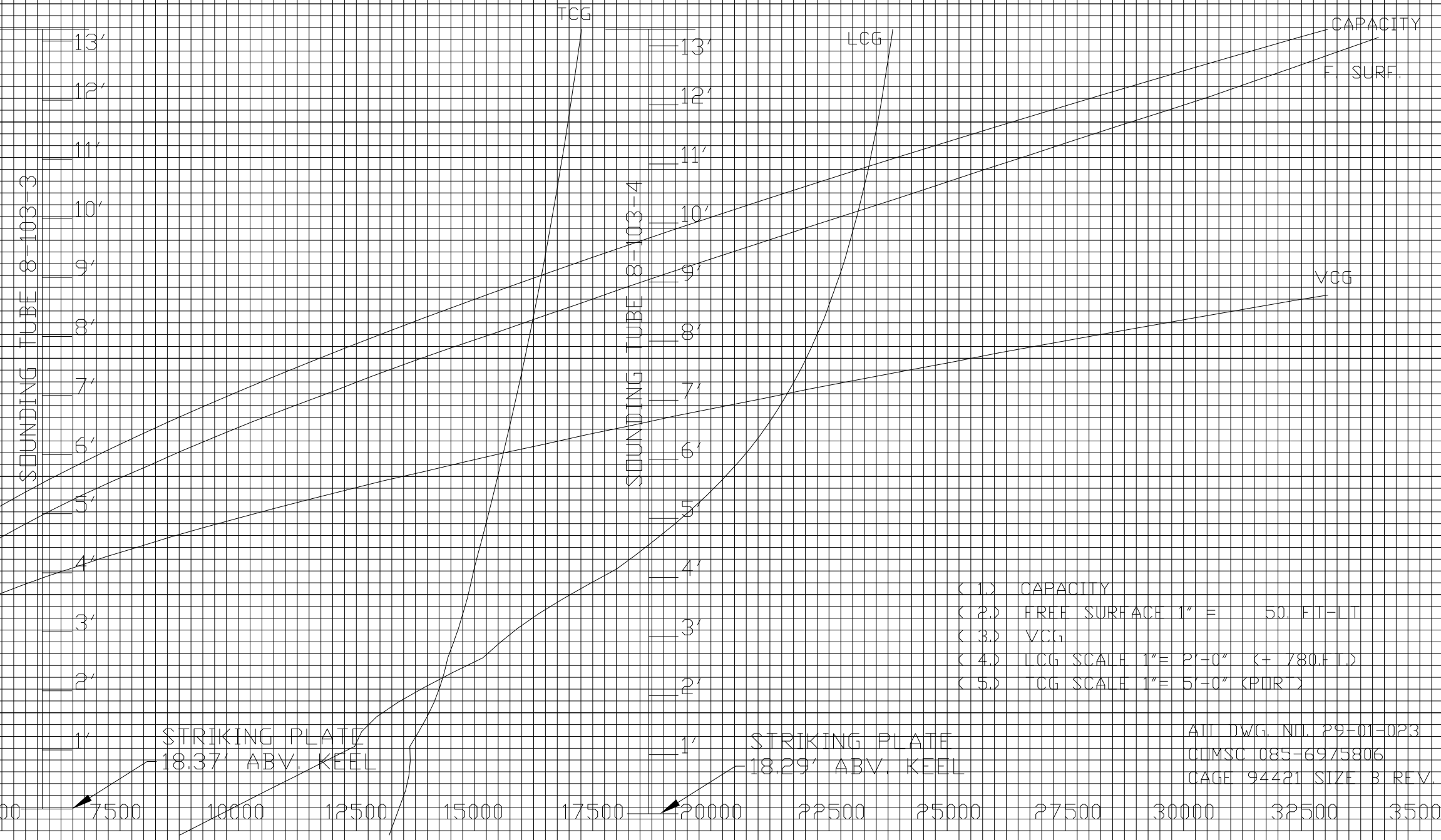
SCALE IN INCHES

FRAMES 103-106 TOP OF TANK = 31.57 FT ABOVE KEEL BOTTOM OF TANK = 17.93 FT ABOVE KEEL

CONDITION OF TANK	CAPACITY IN GALLONS	VCG, FT.ABOVE KEEL	LCG, FT. FROM F.P.	TCG<1> FT. FROM C.L.	FREE<2> SURFACE FT-LT
100% FULL	33054.	27.07	799.08	34.53	MAXIMUM
					682.5

S.T. 8-103-3 TERMINATES @ "D" DECK 26.92' STBD .75' AFT FR. 103
S.T. 8-103-4 TERMINATES @ "D" DECK 26.54' PORT .50' AFT FR. 103

NOTE <1> TCG <+> = PORT <-> = STBD <2> FREE SURFACE FOR FULL TANK IS <0.0> FT-LT THIS IS NOT PLOTTED



- < 1> CAPACITY
- < 2> FREE SURFACE 1" = 50. FT-LT
- < 3> VCG
- < 4> LCG SCALE 1" = 2'-0" (+ /80.F.T.)
- < 5> TCG SCALE 1" = 5'-0" (PORT)

ALL DWG. NO. 29-01-023
CUMSC 085-6975806
CAGE 94421 SIZE B REV. A

TANK: NO 6D SW BALLAST TANK P OR S 8-109-2/1

SCALE IN INCHES

FRAMES 109+113

TOP OF TANK = 35.57 FT ABOVE KEEL

BOTTOM OF TANK = 24.14 FT ABOVE KEEL

CONDITION OF TANK	CAPACITY IN GALLONS	VCG. FT.ABOVE KEEL	LCG. FT. FROM F.P.	TCG.(1) FT. FROM C.L.	FREE(2) SURFACE FT-LT
100% FULL	36960.	30.62	857.13	12.12	MAXIMUM
					1714.8

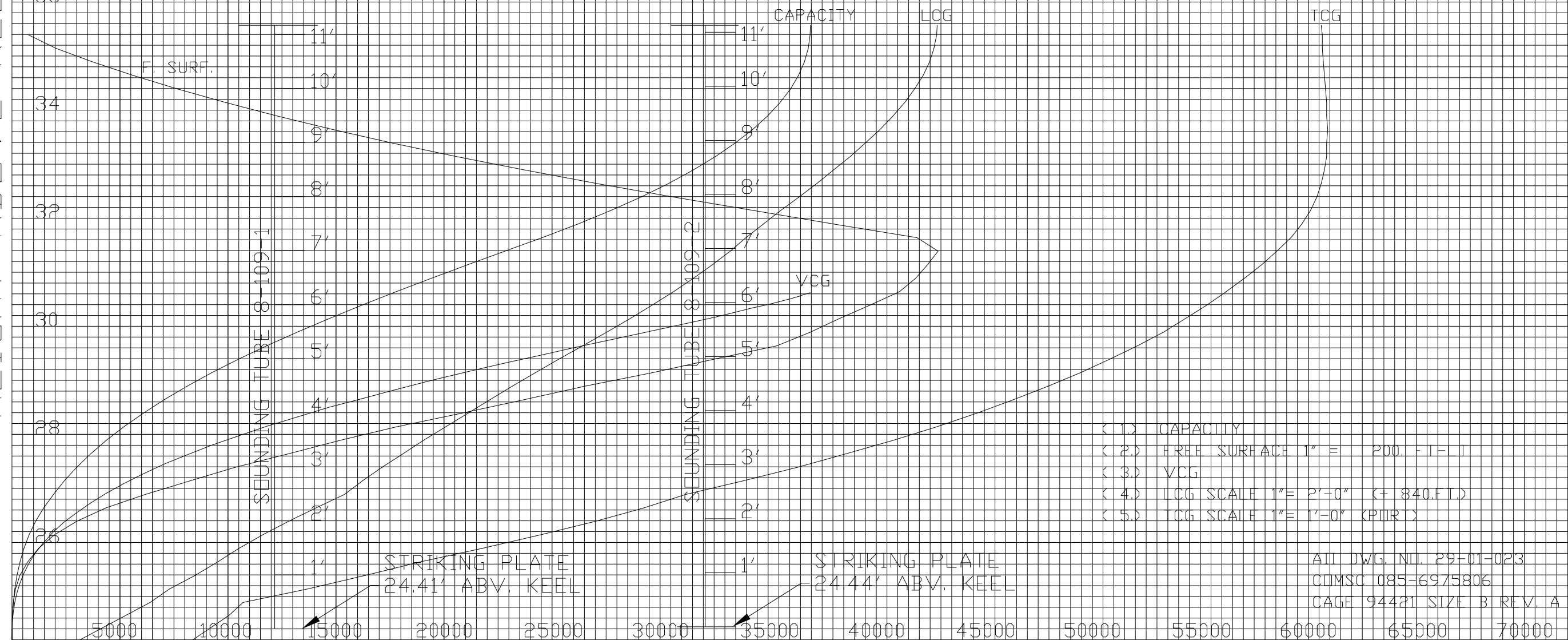
S.T. 8-109-1 TERMINATES @ "B" DECK .40' STBD 1.21' AFT FR. 109

S.T. 8-109-2 TERMINATES @ "B" DECK .48' PORT .50' AFT FR. 109

NOTE (1) TCG (+) = PORT
(-) = STBD

(2) FREE SURFACE FOR FULL TANK IS (0.0) FT-LT
THIS IS NOT PLOTTED

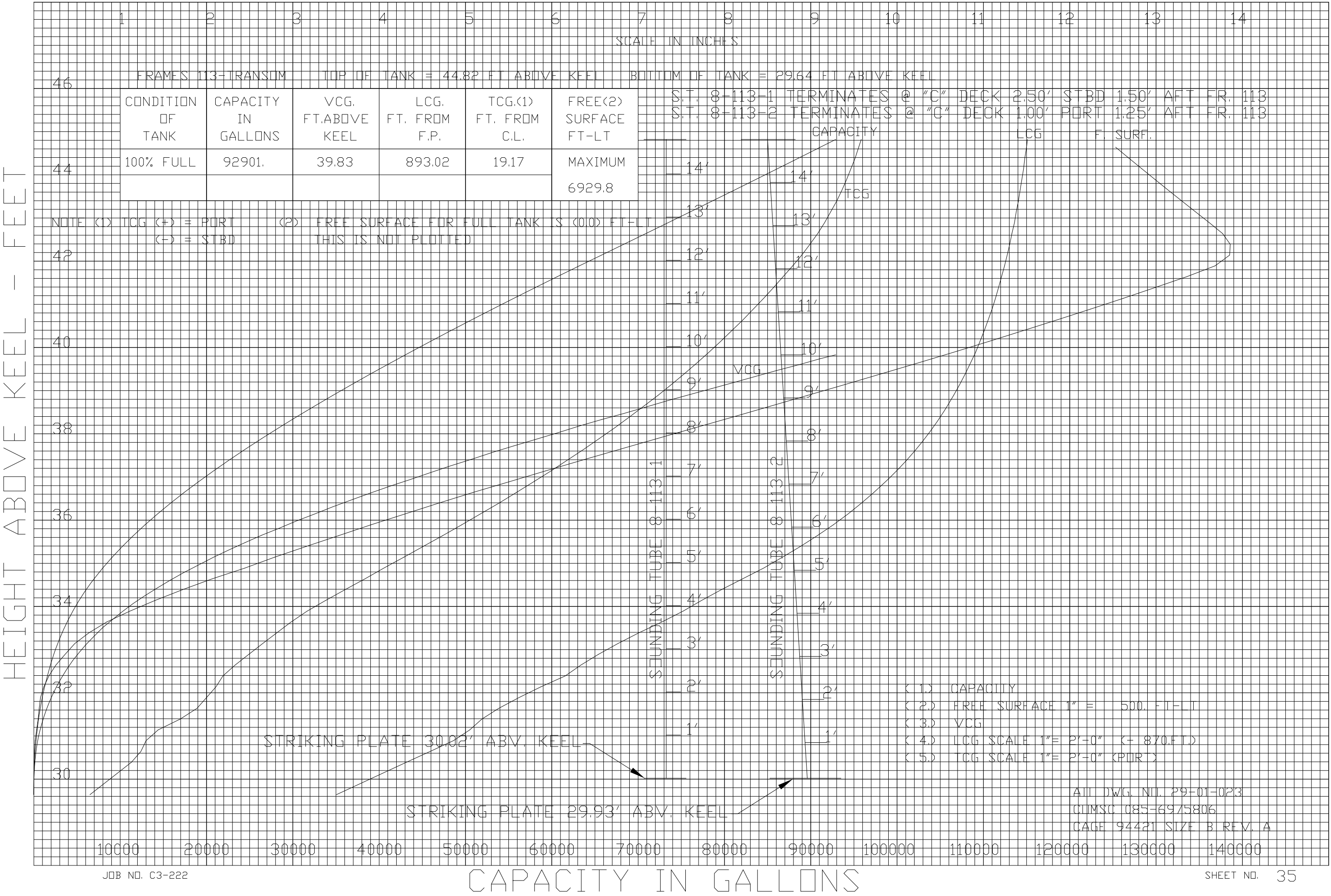
HEIGHT ABOVE KEEL - FEET



- (1) CAPACITY
- (2) FREE SURFACE 1" = 200. FT-LT
- (3) VCG
- (4) LCG SCALE 1" = 2'-0" (+ 840.FT.)
- (5) TCG SCALE 1" = 1'-0" (PORT)

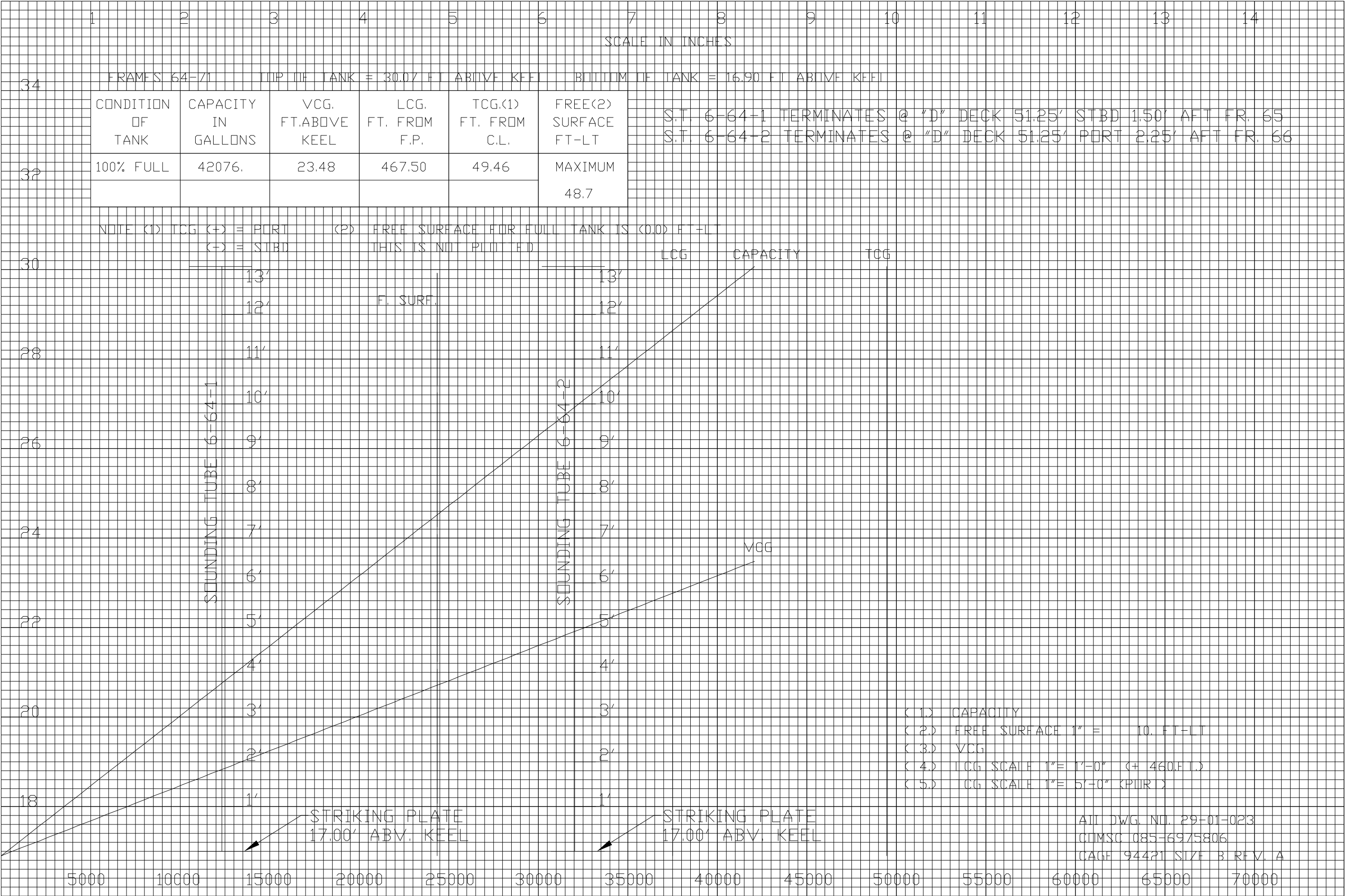
ALL DWG. NO. 29-01-023
COMSC 085-6975806
CAGE 94421 SIZE B REV. A

TANK: AFT PEAK BALLAST TANK P OR S 8-113-2/1



TANK: LIST CONTROL TANK P OR S 6-64-2/1

HEIGHT ABOVE KEEL - FEET



TANK: POTABLE WATER TANK NO 1 5-95-7

HEIGHT ABOVE KEEL - FEET

1 2 3 4 5 6 7 8 9 10 11 12 13 14

SCALE IN INCHES

50 FRAMES 94-99 TOP OF TANK = 44.82 FT ABOVE KEEL BOTTOM OF TANK = 33.07 FT ABOVE KEEL

CONDITION OF TANK	CAPACITY IN GALLONS	VCG, FT.ABOVE KEEL	LCG, FT. FROM F.P.	TCG<1> FT. FROM C.L.	FREE<2> SURFACE FT-LT
100% FULL	12706.	38.90	729.75	-44.26	MAXIMUM
					4.1

PETCOCKS LOCATED 'D' DECK, 43.25' STBD, 1.75' AFT FR. 94

NOTE <1> TCG <+> = PORT <-> = STBD <2> FREE SURFACE FOR FULL TANK IS <0.0> FT-LT THIS IS NOT PLOTTED

46

F. SURF.

TCG

LCG

CAPACITY

44

VALVE #9

42

VALVE #8

VALVE #7

40

VALVE #6

VALVE #5

38

VALVE #4

VALVE #3

36

VALVE #2

VALVE #1

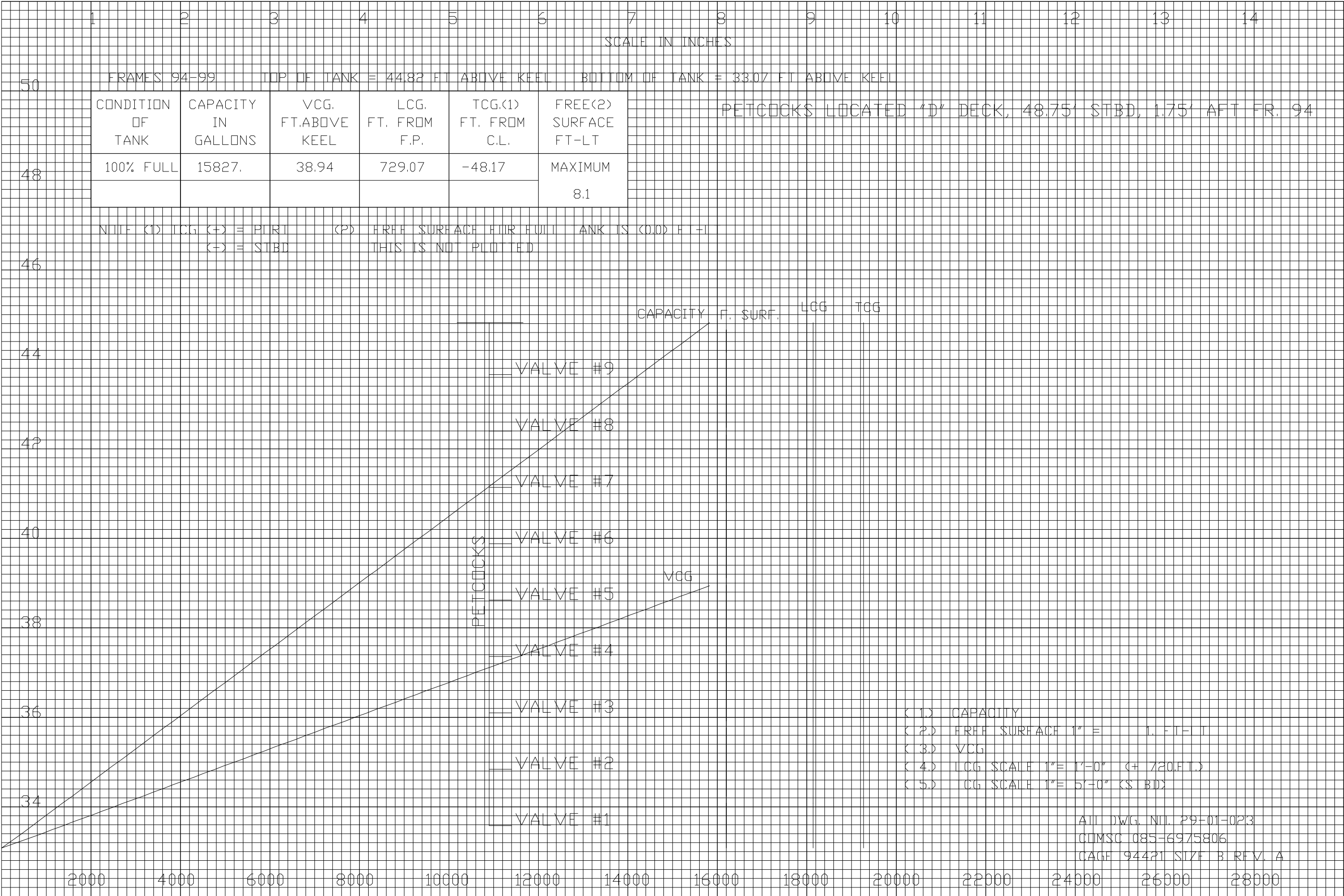
34

- < 1> CAPACITY
- < 2> FREE SURFACE 1" = 1 FT-LT
- < 3> VCG
- < 4> LCG SCALE 1"= 1'-0" <+ /20.F.T.>
- < 5> TCG SCALE 1"= 5'-0" <STBD>

ALL DWG. NO. 29-01-023
COMSC 085-6975806
CAGE 94421 SIZE B REV. A

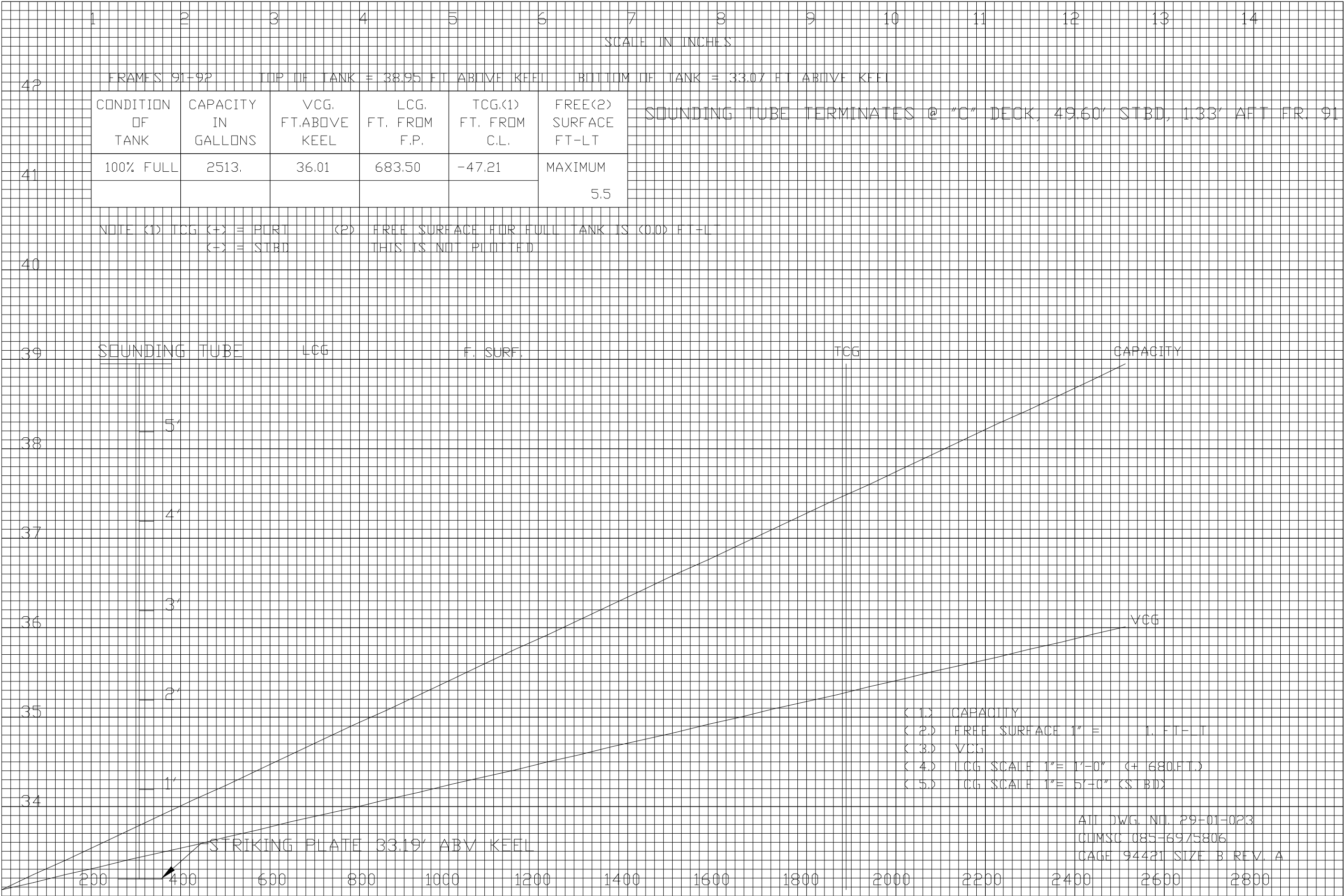
TANK: POTABLE WATER TANK NO 2 5-95-9

HEIGHT ABOVE KEEL - FEET



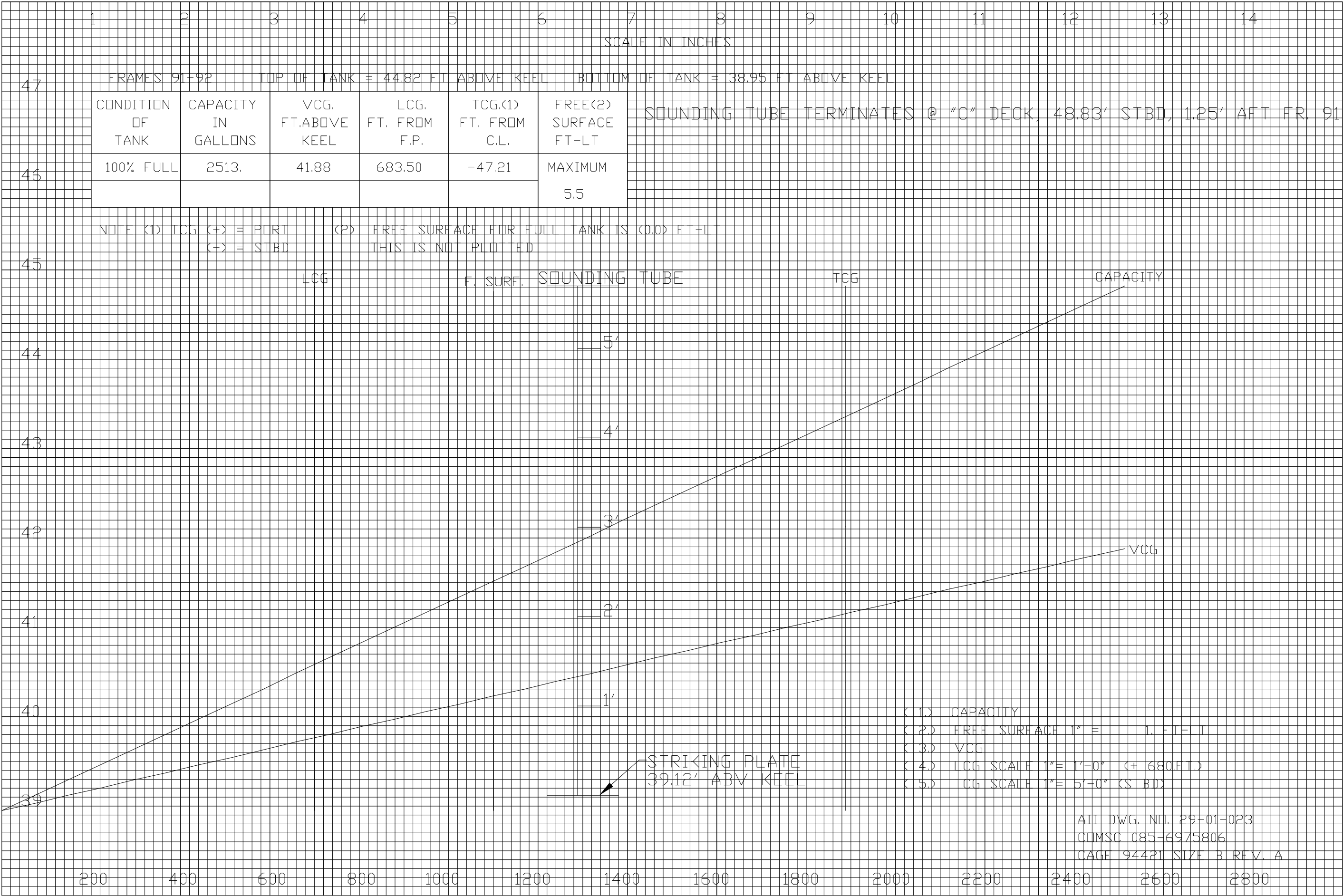
TANK: RESV FEED WATER TANK 5-91-1

HEIGHT ABOVE KEEL - FEET

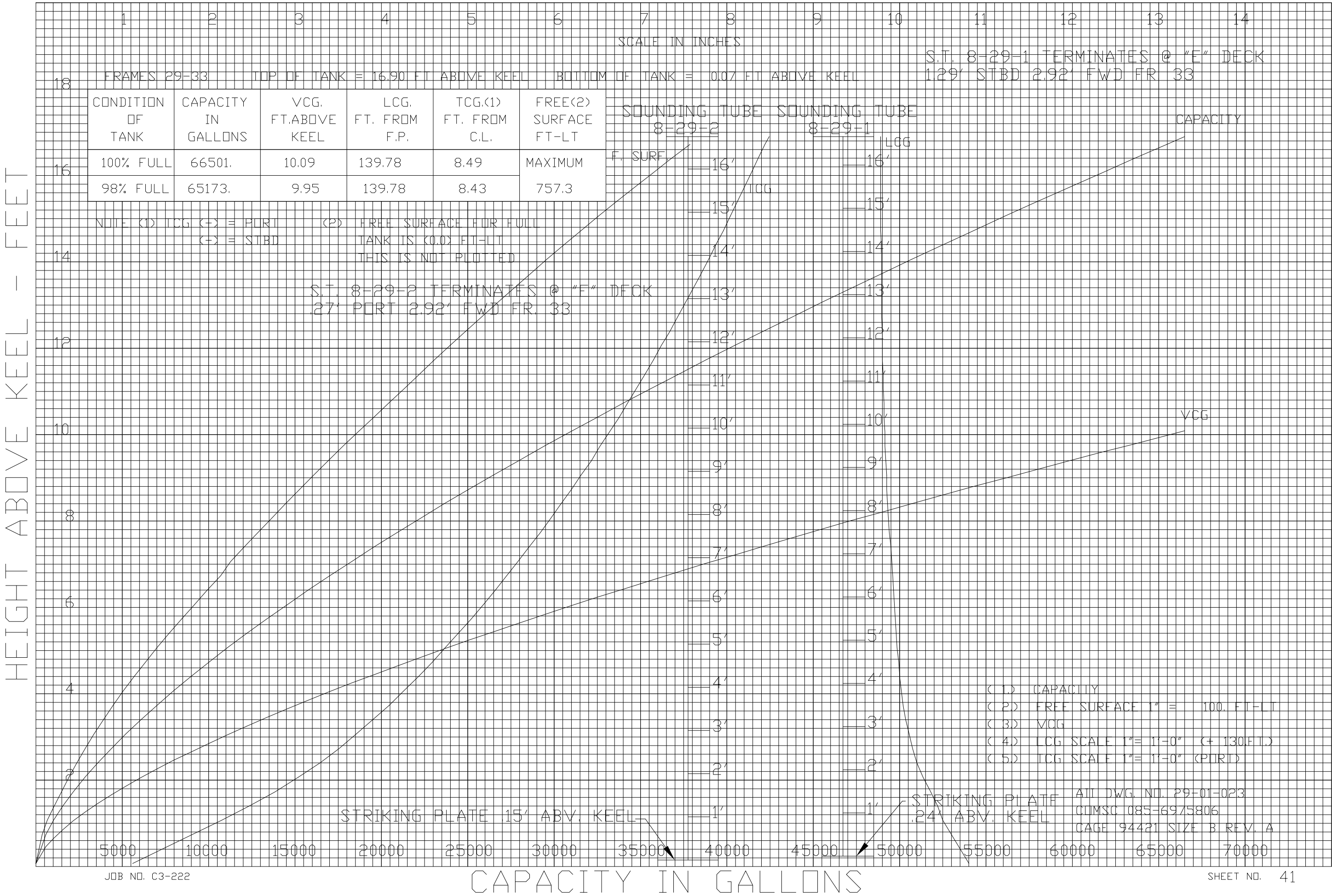


TANK: DIST WATER TANK 4.5-91-1

HEIGHT ABOVE KEEL - FEET



TANK: FUEL OIL TANK NO 1B P OR S 8-29-2/1



TANK: FUEL OIL TANK NO 2A P OR S 8-33-2/1

HEIGHT ABOVE KEEL - FEET

1 2 3 4 5 6 7 8 9 10 11 12 13 14

SCALE IN INCHES

FRAMES 33-38 TOP OF TANK = 6.82 FT ABOVE KEEL BOTTOM OF TANK = 0.07 FT ABOVE KEEL

CONDITION OF TANK	CAPACITY IN GALLONS	VCG. FT.ABOVE KEEL	LCG. FT. FROM F.P.	TCG.(1) FT. FROM C.L.	FREE(2) SURFACE FT-LT
100% FULL	30620.	4.02	180.91	7.57	MAXIMUM
98% FULL	30007.	3.96	180.92	7.52	679.7

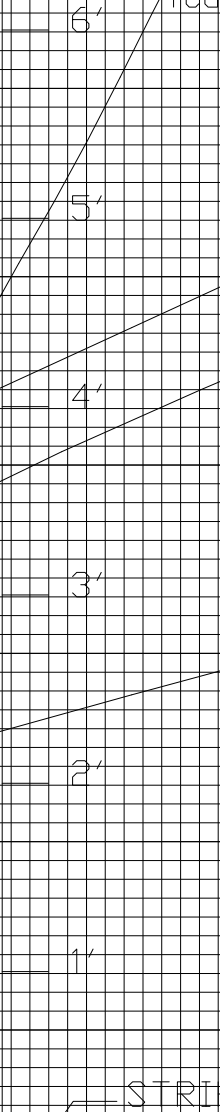
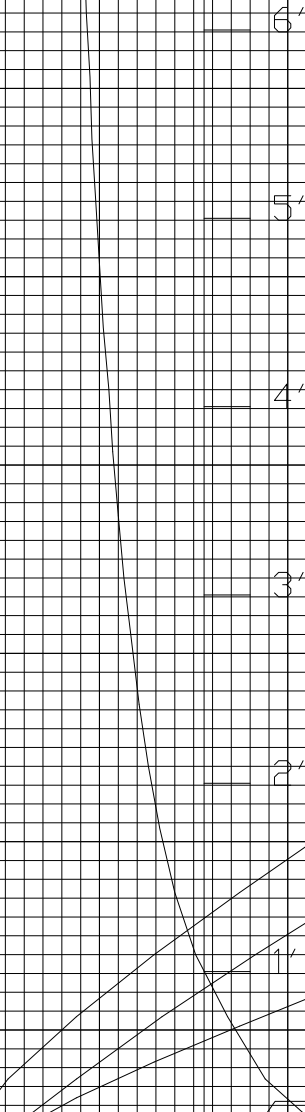
ST. 8-33-1 TERMINATES @ "F" DECK 1.50' STBD 5.60' FWD FR. 41
ST. 8-33-2 TERMINATES @ "F" DECK 1.46' PORT 5.60' FWD FR. 41

NOTE (1) TCG (+) = PORT (-) = STBD (2) FREE SURFACE FOR FULL TANK IS (0.0) FT-LT THIS IS NOT PLOTTED

SOUNDING TUBE 8-33-1

SOUNDING TUBE 8-33-2

LOG



- (1.) CAPACITY
- (2.) FREE SURFACE 1" = 50. FT-LT
- (3.) VCG
- (4.) LCG SCALE 1"= 1'-0" (+ 180.FT.)
- (5.) CG SCALE 1"= 1'-0" (PORT)

ALL DWG. NO. 29-01-023
CUMSC 085-6975806
CAGE 94421 SIZE B REV. A

TANK: FUEL OIL TANK NO 2B P OR S 8-38-2/1

HEIGHT ABOVE KEEL - FEET

1 2 3 4 5 6 7 8 9 10 11 12 13 14

SCALE IN INCHES

FRAMES 38-44 TOP OF TANK = 6.82 FT ABOVE KEEL BOTTOM OF TANK = 0.07 FT ABOVE KEEL

CONDITION OF TANK	CAPACITY IN GALLONS	VCG, FT.ABOVE KEEL	LCG, FT. FROM F.P.	TCG.(1) FT. FROM C.L.	FREE(2) SURFACE FT-LT
100% FULL	48679.	3.71	230.86	9.49	MAXIMUM
98% FULL	47705.	3.65	230.86	9.48	915.9

ST. 8-38-1 TERMINATES @ "F" DECK 1.50' STBD 1.12' FWD FR. 46
ST. 8-38-2 TERMINATES @ "F" DECK 1.50' PORT 1.12' FWD FR. 46

NOTE (1) TCG (-) = PORT (-) = STBD THIS IS NOT PLOTTED (2) FREE SURFACE FOR FULL TANK IS (0.0) FT-LT

SOUNDING TUBE 8-38-1

SOUNDING TUBE 8-38-2

LCG

CAPACITY

TCG

VCG

F. SURF.

- (1.) CAPACITY
- (2.) FREE SURFACE 1" = 100. FT-LT
- (3.) VCG
- (4.) LCG SCALE 1"= 1'-0" (+ 230.FT.)
- (5.) TCG SCALE 1"= 1'-0" (PORT)

STRIKING PLATE .31' ABV. KEEL

STRIKING PLATE .30' ABV. KEEL

ALL DWG. NO. 29-01-023
COMSC 085-6975806
CAGE 94421 SIZE B REV. A

TANK: FUEL OIL TANK NO 2C P OR S 8-44-2/1

HEIGHT ABOVE KEEL - FEET

1 2 3 4 5 6 7 8 9 10 11 12 13 14

SCALE IN INCHES

FRAMES 44-50 TOP OF TANK = 6.82 FT ABOVE KEEL BOTTOM OF TANK = 0.07 FT ABOVE KEEL

CONDITION OF TANK	CAPACITY IN GALLONS	VCG. FT.ABOVE KEEL	LCG. FT. FROM F.P.	TCG.(1) FT. FROM C.L.	FREE(2) SURFACE FT-LT
100% FULL	60550.	3.53	284.20	11.45	MAXIMUM
98% FULL	59337.	3.46	284.21	11.45	1349.7

ST. 8-44-1 TERMINATES @ "F" DECK 4.50' STBD 1.77' FWD FR. 50
ST. 8-44-2 TERMINATES @ "F" DECK 4.50' PORT 1.79' FWD FR. 50

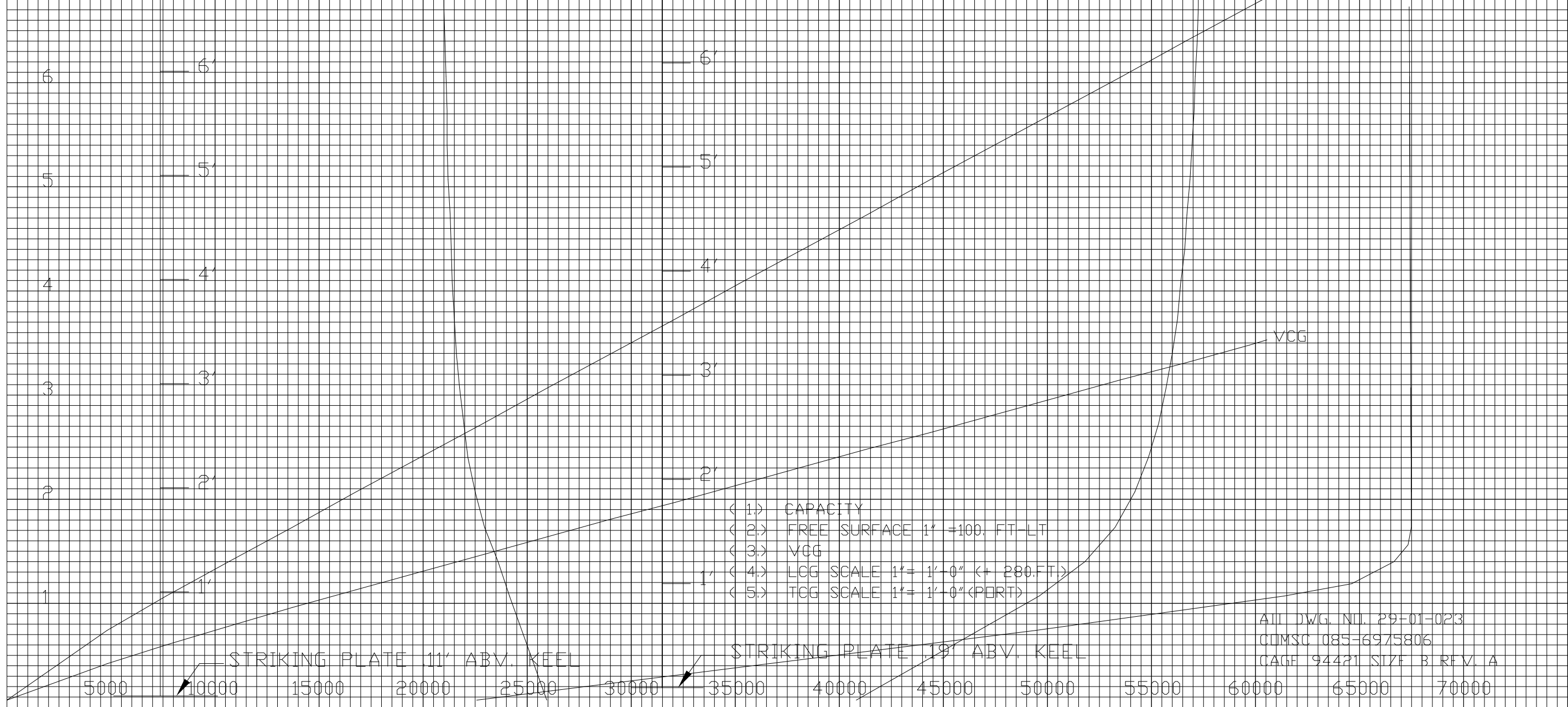
NOTE (1) TCG (+) = PORT (-) = STBD (2) FREE SURFACE FOR FULL TANK IS (0.0) FT-LT THIS IS NOT PLOTTED

SOUNDING TUBE 8-44-2

LCG

SOUNDING TUBE 8-44-1

TCG CAPACITY F. SURF.



TANK: FUEL OIL TANK NO 3A P OR S 8-50-2/1

HEIGHT ABOVE KEEL - FEET

1 2 3 4 5 6 7 8 9 10 11 12 13 14

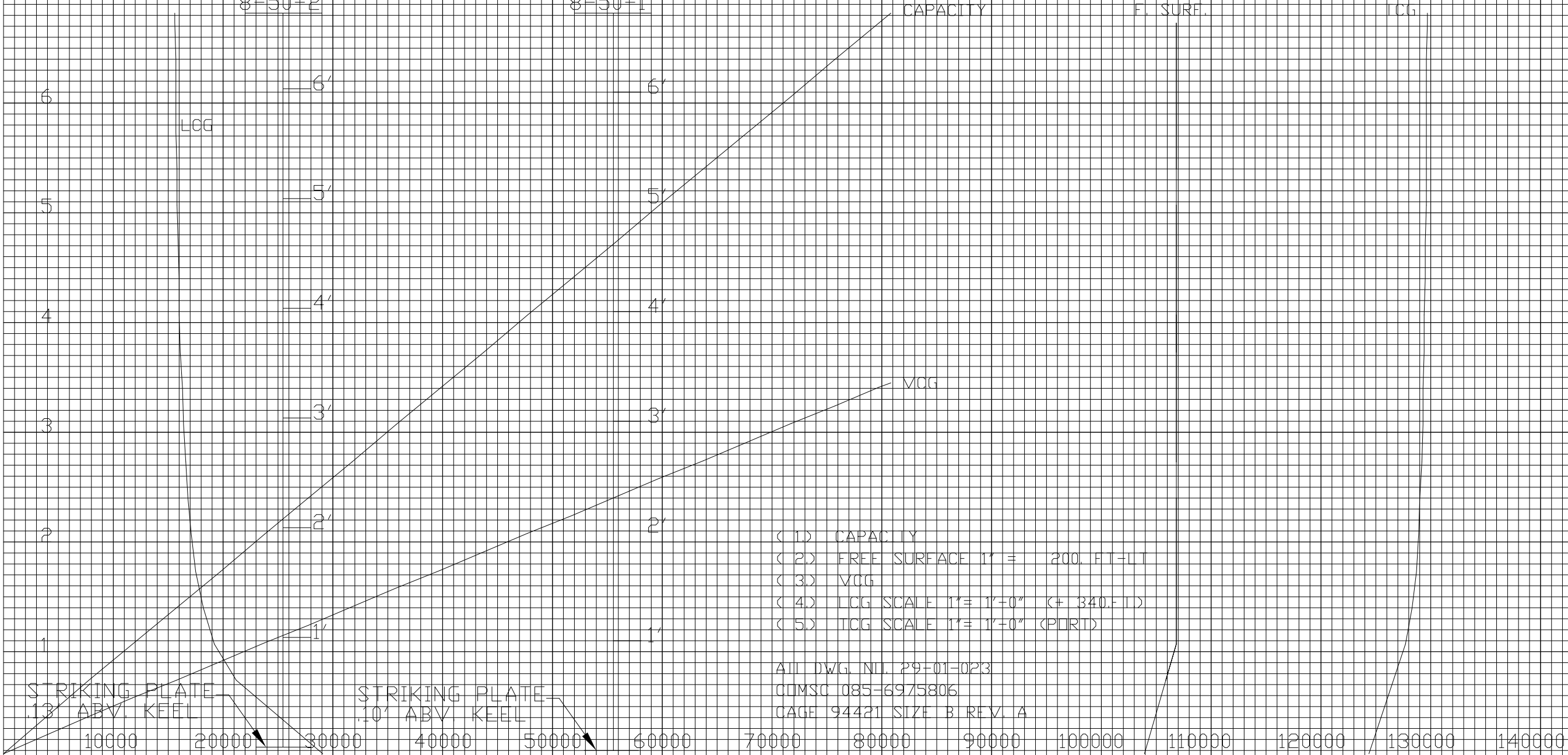
SCALE IN INCHES

FRAMES 50-57 TOP OF TANK = 6.82 FT ABOVE KEEL BOTTOM OF TANK = 0.07 FT ABOVE KEEL

CONDITION OF TANK	CAPACITY IN GALLONS	VCG. FT.ABOVE KEEL	LCG. FT. FROM F.P.	TCG.(1) FT. FROM C.L.	FREE(2) SURFACE FT-LT
100% FULL	80829.	3.45	341.56	12.97	MAXIMUM
98% FULL	79212.	3.39	341.56	12.97	2136.6

ST. 8-50-1 TERMINATES @ "F" DECK .79' STBD 1.36' AFT FR. 56
ST. 8-50-2 TERMINATES @ "F" DECK .92' PORT 1.41' AFT FR. 56

NOTE (1) TCG (+) = PORT (-) = STBD
(2) FREE SURFACE FOR FULL TANK IS (0.0) FT-LT
THIS IS NOT PLOTTED
SOUNDING TUBE 8-50-2 SOUNDING TUBE 8-50-1



TANK: FUEL OIL TANK NO 3C P OR S 8-64-2/1

HEIGHT ABOVE KEEL - FEET

1	2	3	4	5	6	7	8	9	10	11	12	13	14
SCALE IN INCHES													
FRAMES 64-71		TOP OF TANK = 6.82 FT ABOVE KEEL				BOTTOM OF TANK = 0.07 FT ABOVE KEEL							
CONDITION OF TANK		CAPACITY IN GALLONS	VCG. FT.ABOVE KEEL	LCG. FT. FROM F.P.	TCG.(1) FT. FROM C.L.	FREE(2) SURFACE FT-LT	ST. 8-64-1 TERMINATES @ "F" DECK 12.42' STBD .64' FWD FR. 71						
100% FULL		81063.	3.45	467.50	13.00	MAXIMUM	ST. 8-64-2 TERMINATES @ "F" DECK 12.47' PORT .97' AFT FR. 71						
98% FULL		79442.	3.38	467.50	13.00	2136.6							

NOTE (1) TCG (+) = PORT (-) = STBD (2) FREE SURFACE FOR FULL TANK IS (0.0) FT-LT THIS IS NOT PLOTTED

SOUNDING TUBE 8-64-1

SOUNDING TUBE 8-64-2

LCG

CAPACITY

F. SURF.

TCG

6'

6'

5'

5'

4'

4'

3'

3'

2'

2'

1'

1'

VCG

STRIKING PLATE .17' ABV. KEEL

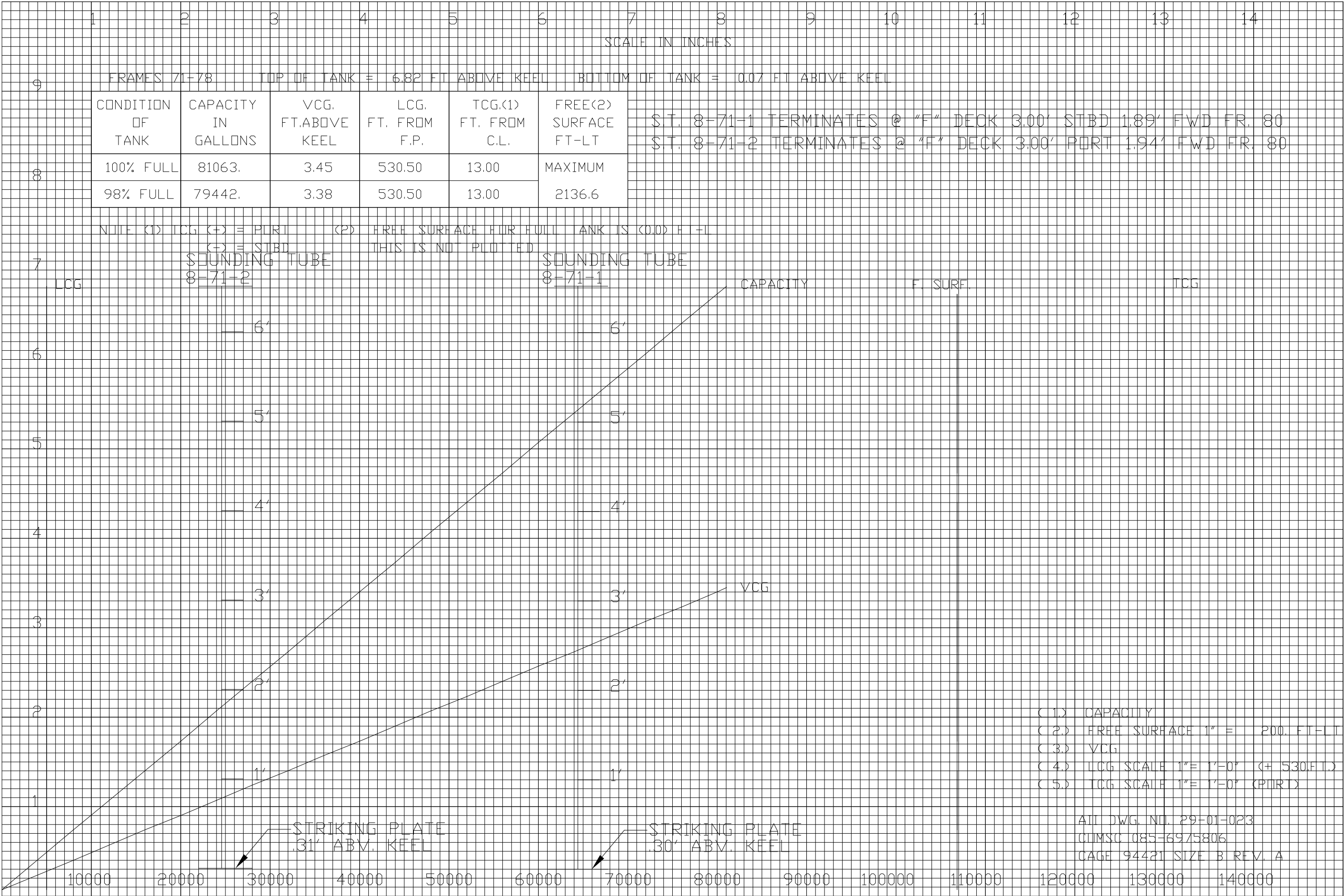
STRIKING PLATE .29' ABV. KEEL

- (1.) CAPACITY
- (2.) FREE SURFACE 1" = 200. FT-LT
- (3.) VCG
- (4.) LCG SCALE 1"= 1'-0" (+ 460.FTL)
- (5.) TCG SCALE 1"= 1'-0" (PORT)

ATT DWG. NO. 29-01-023
COMSC 085-6975806
CAGE 94421 SIZE B REV. A

TANK: FUEL OIL TANK NO 4A P OR S 8-71-2/1

HEIGHT ABOVE KEEL - FEET



TANK: FUEL OIL TANK NO 4B P OR S 8-78-2/1

HEIGHT ABOVE KEEL - FEET

1 2 3 4 5 6 7 8 9 10 11 12 13 14

SCALE IN INCHES

FRAMES 78-85 TOP OF TANK = 6.82 FT ABOVE KEEL BOTTOM OF TANK = 0.07 FT ABOVE KEEL

CONDITION OF TANK	CAPACITY IN GALLONS	VCG. FT.ABOVE KEEL	LCG. FT. FROM F.P.	TCG.(1) FT. FROM C.L.	FREE(2) SURFACE FT-LT
100% FULL	80921.	3.45	593.45	12.98	MAXIMUM
98% FULL	79303.	3.38	593.45	12.98	2126.2

ST. 8-78-1 TERMINATES @ "F" DECK 18.58' STBD 1.32' FWD FR. 85
ST. 8-78-2 TERMINATES @ "F" DECK 18.58' PORT 1.25' FWD FR. 85

NOTE (1) TCG (+) = PORT (-) = STBD (2) FREE SURFACE FOR FULL TANK IS (0.0) FT-LT THIS IS NOT PLOTTED

SOUNDING TUBE
8-78-1 LCG

SOUNDING TUBE
8-78-2 CAPACITY

FREE SURF. TCG

= 6'

= 6'

= 5'

= 5'

= 4'

= 4'

= 3'

= 3'

= 2'

= 2'

= 1'

= 1'

VCG

- (1.) CAPACITY
(2.) FREE SURFACE 1" = 200. FT-LT
(3.) VCG
(4.) LCG SCALE 1" = 1'-0" (+ 590.FT.)
(5.) TCG SCALE 1" = 1'-0" (PORT)

STRIKING PLATE
.13' ABV. KEEL

STRIKING PLATE
.15' ABV. KEEL

ALL DWG. NO. 29-01-023
COMSC 08546975806
CAGE 94421 SIZE B REV. A

TANK: FUEL OIL TANK NO 6A P OR S 8-99-2/1

HEIGHT ABOVE KEEL - FEET

1 2 3 4 5 6 7 8 9 10 11 12 13 14

SCALE IN INCHES

55

FRAMES 99-103

TOP OF TANK = 31.57 FT ABOVE KEEL

BOTTOM OF TANK = 11.05 FT ABOVE KEEL

CONDITION OF TANK	CAPACITY IN GALLONS	VCG, FT.ABOVE KEEL	LCG, FT. FROM F.P.	TCG<1> FT. FROM C.L.	FREE<2> SURFACE FT-LT
100% FULL	75747.	23.19	771.75	16.07	MAXIMUM
98% FULL	74232.	23.02	771.74	16.07	705.8

ST. 8-99-1 TERMINATES @ "D" DECK 15.25' STBD .46' AFT FR. 99
ST. 8-99-2 TERMINATES @ "C" DECK 14.58' PORT .42' AFT FR. 99

50

NOTE <1> TCG <+> = PORT <-> = STBD <2> FREE SURFACE FOR FULL TANK IS <0.0> FT-LT
THIS IS NOT PLOTTED

45

40

35

SOUNDING TUBE
8-99-1

SOUNDING TUBE
8-99-2

TCG

LCG

30

25

20

15

STRIKING PLATE
11.24' ABV. KEEL

STRIKING PLATE
11.22' ABV. KEEL

- < 1> CAPACITY
- < 2> FREE SURFACE 1" = 100. FT-LT
- < 3> VCG
- < 4> LCG SCALE 1"= 2'-0" (+ 750.FT.)
- < 5> TCG SCALE 1"= 2'-0" (PORT)

ALL DWG. NO. 29-01-023
COMSC 085-6975806
CAGE 94421 SIZE B REV. A

TANK: FUEL OIL TANK NO 6B P OR S 8-103-2/1

HEIGHT ABOVE KEEL - FEET

1 2 3 4 5 6 7 8 9 10 11 12 13 14

SCALE IN INCHES

34

FRAMES 103-106

TOP OF TANK = 31.57 FT ABOVE KEEL

BOTTOM OF TANK = 15.89 FT ABOVE KEEL

CONDITION OF TANK	CAPACITY IN GALLONS	VCG, FT.ABOVE KEEL	LCG, FT. FROM F.P.	TCG<1> FT. FROM C.L.	FREE<2> SURFACE FT-LT
100% FULL	65123.	25.17	799.73	12.61	MAXIMUM
98% FULL	63821.	25.04	799.72	12.60	915.7

ST. 8-103-1 TERMINATES @ "D" DECK 2.50' PORT 2.75' FWD FR. 103

ST. 8-103-2 TERMINATES @ "D" DECK 2.50' PORT 100' FWD FR. 103

32

NOTE <1> TCG (+) = PORT
(-) = STBD

<2> FREE SURFACE FOR FULL TANK IS 0.00 FT-LT
THIS IS NOT PLOTTED

F. SURF.

LCG

CAPACITY

TCG

VCG

30

28

26

24

22

20

18

16

JOB NO. C3-222

CAPACITY IN GALLONS

SHEET NO. 50

- < 1> CAPACITY
< 2> FREE SURFACE 1" = 100. FT-LT
< 3> VCG
< 4> LCG SCALE 1"= 2'-0" (+ 780.FT.)
< 5> CG SCALE 1"= 1'-0" (PORT)

STRIKING PLATE
16.46' ABV. KEEL

STRIKING PLATE
16.50' ABV. KEEL

ALL DWG. NO. 29-01-023
COMSC 085-6975806
CAGE 94421 SIZE B REV. A

TANK: FUEL OIL TANK NO 6C P OR S 8-106-2/1

HEIGHT ABOVE KEEL - FEET

1 2 3 4 5 6 7 8 9 10 11 12 13 14

SCALE IN INCHES

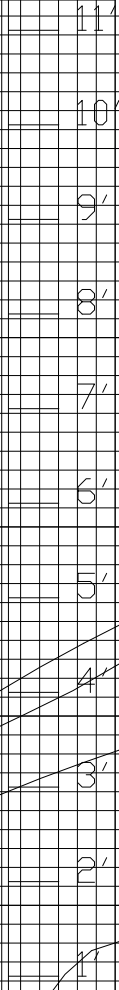
FRAMES 106-109 TOP OF TANK = 31.57 FT ABOVE KEEL BOTTOM OF TANK = 20.02 FT ABOVE KEEL

CONDITION OF TANK	CAPACITY IN GALLONS	VCG, FT.ABOVE KEEL	LCG, FT. FROM F.P.	TCG.(1) FT. FROM C.L.	FREE(2) SURFACE FT-LT
100% FULL	57393.	27.68	826.00	17.33	MAXIMUM
98% FULL	56245.	27.61	825.97	17.25	4225.2

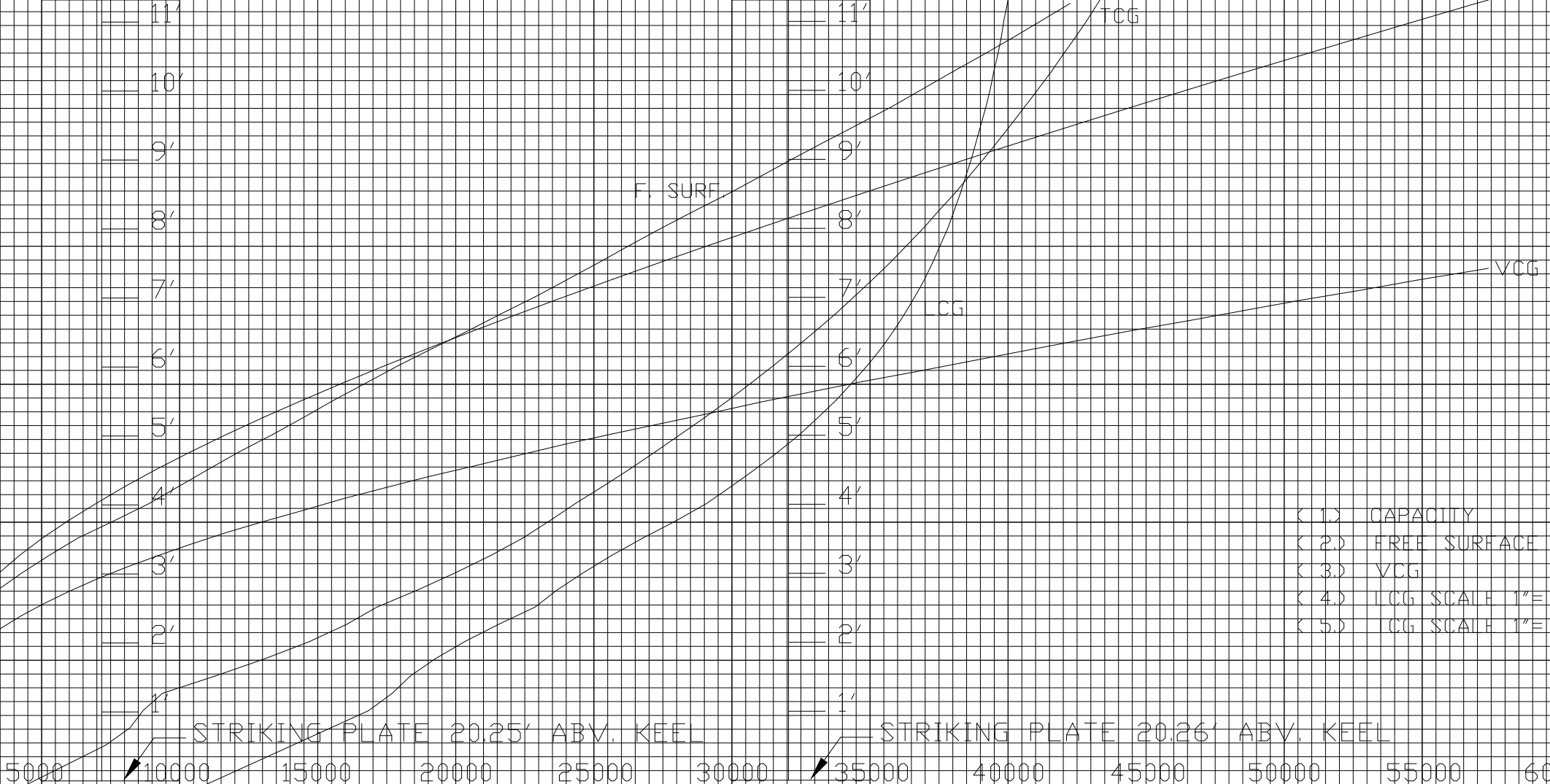
S.T. 8-106-1 TERMINATES @ "D" DECK .50' STBD 5.00' AFT FR. 104
S.T. 8-106-2 TERMINATES @ "D" DECK .50' PORT 5.00' AFT FR. 104

NOTE (1) TCG (+) = PORT (-) = STBD (2) FREE SURFACE FOR FULL TANK IS (0.0) FT-LT
(-) = STBD THIS IS NOT PLOTTED

SOUNDING TUBE
8-106-1



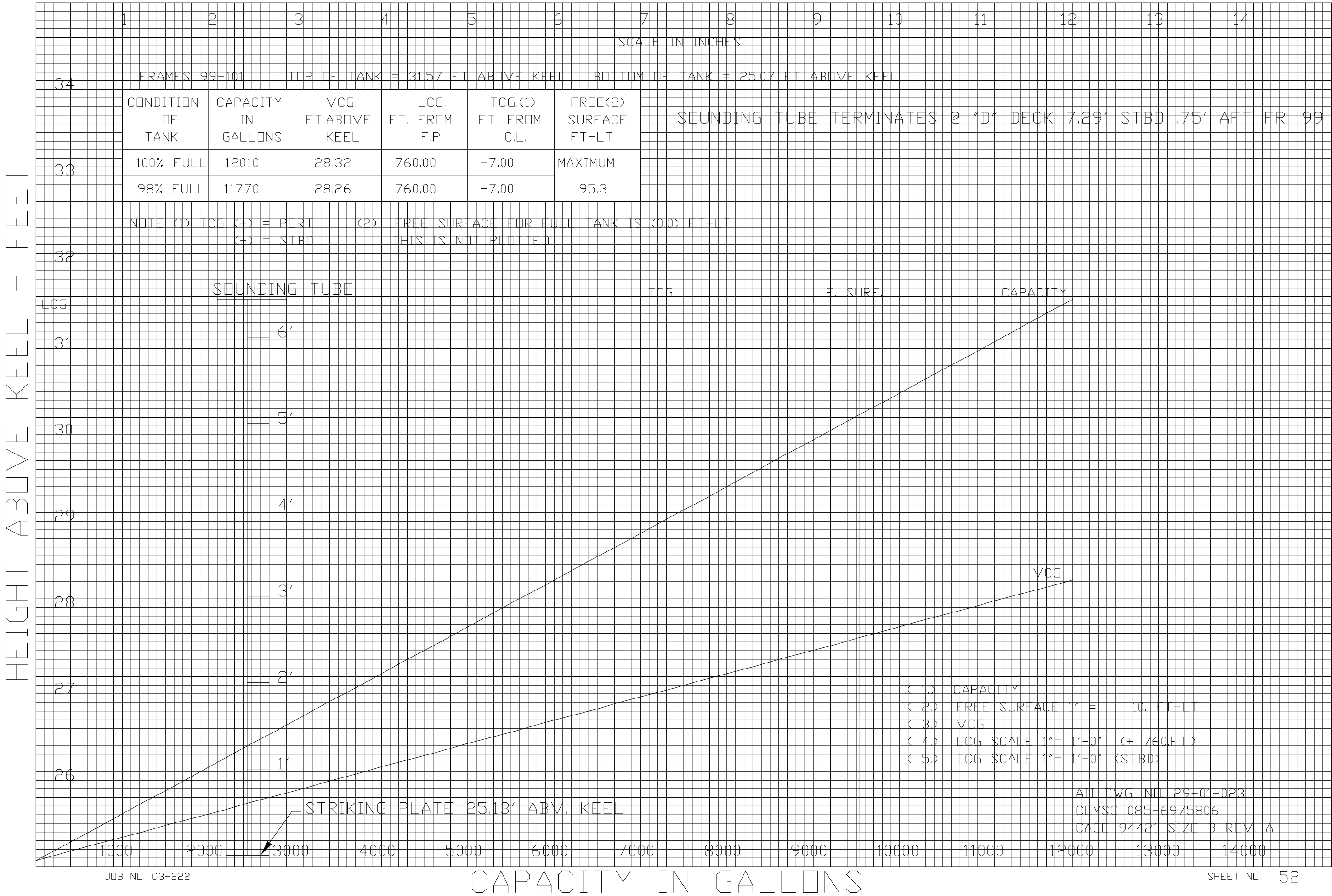
SOUNDING TUBE
8-106-2



- (1) CAPACITY
- (2) FREE SURFACE 1" = 500. FT-LT
- (3) VCG
- (4) LCG SCALE 1" = 2'-0" (+ 810.F.T.)
- (5) LCG SCALE 1" = 2'-0" (PORT)

ALL DWG. NO. 29-01-023
COMSC 085-6975806
CAGE 94421 SIZE B REV. A

TANK: SSDG FUEL OIL SERVICE TANK 6.5-99-1



TANK: FUEL OIL SETTLING TANK 8-99-0

HEIGHT ABOVE KEEL - FEET

1 2 3 4 5 6 7 8 9 10 11 12 13 14

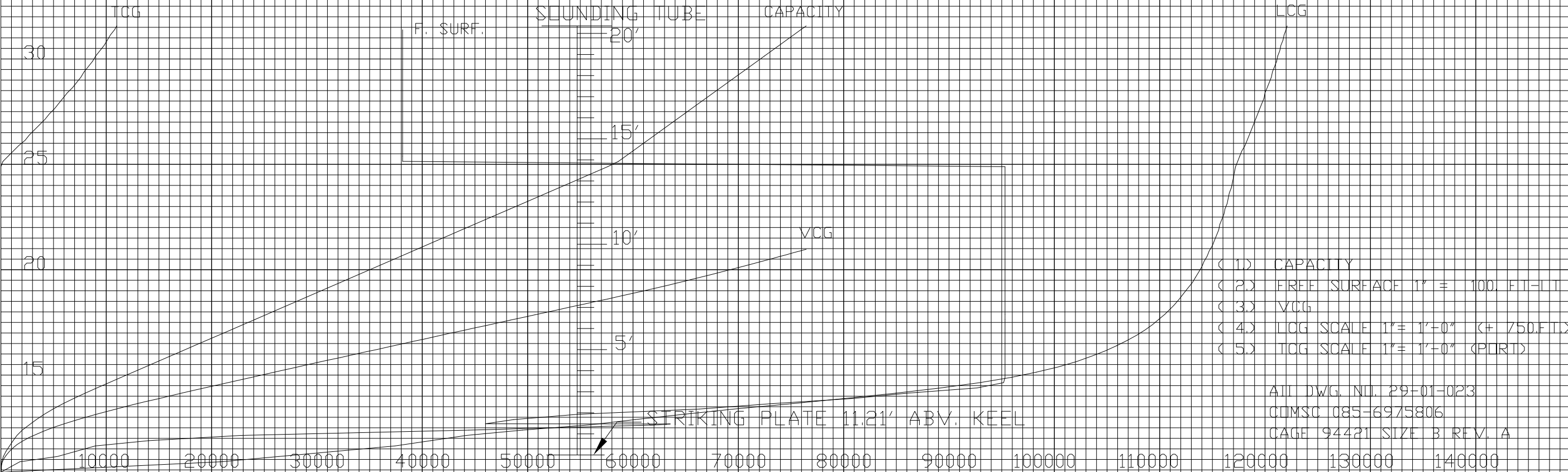
SCALE IN INCHES

FRAMES 99-102 TOP OF TANK = 31.57 FT ABOVE KEEL BOTTOM OF TANK = 10.39 FT ABOVE KEEL

CONDITION OF TANK	CAPACITY IN GALLONS	VCG, FT.ABOVE KEEL	LCG, FT. FROM F.P.	TCG<1> FT. FROM C.L.	FREE<2> SURFACE FT-LT
100% FULL	76446.	20.97	762.21	1.10	MAXIMUM
98% FULL	74917.	20.76	762.17	1.03	953.2

SOUNDING TUBE TERMINATES @ "D" DECK 2.46' PORT 4.00' AFT FR. 99

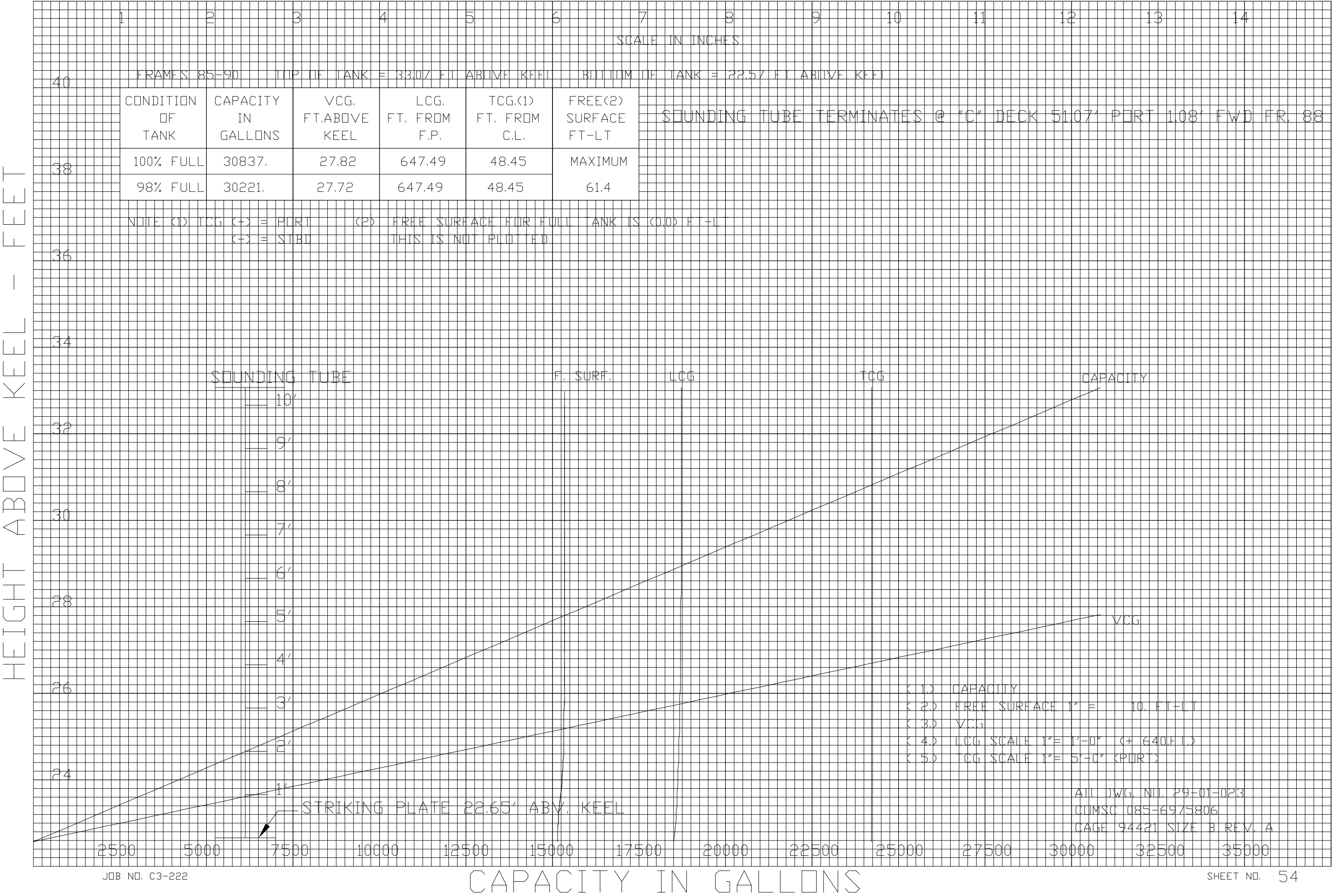
NOTE <1> TCG <+> = PORT <-> = STBD <2> FREE SURFACE FOR FULL TANK IS <0.0> FT-LT THIS IS NOT PLOTTED



- < 1> CAPACITY
- < 2> FREE SURFACE 1" = 100 FT-LT
- < 3> VCG
- < 4> LCG SCALE 1" = 1'-0" (+ 750 FT)
- < 5> TCG SCALE 1" = 1'-0" (PORT)

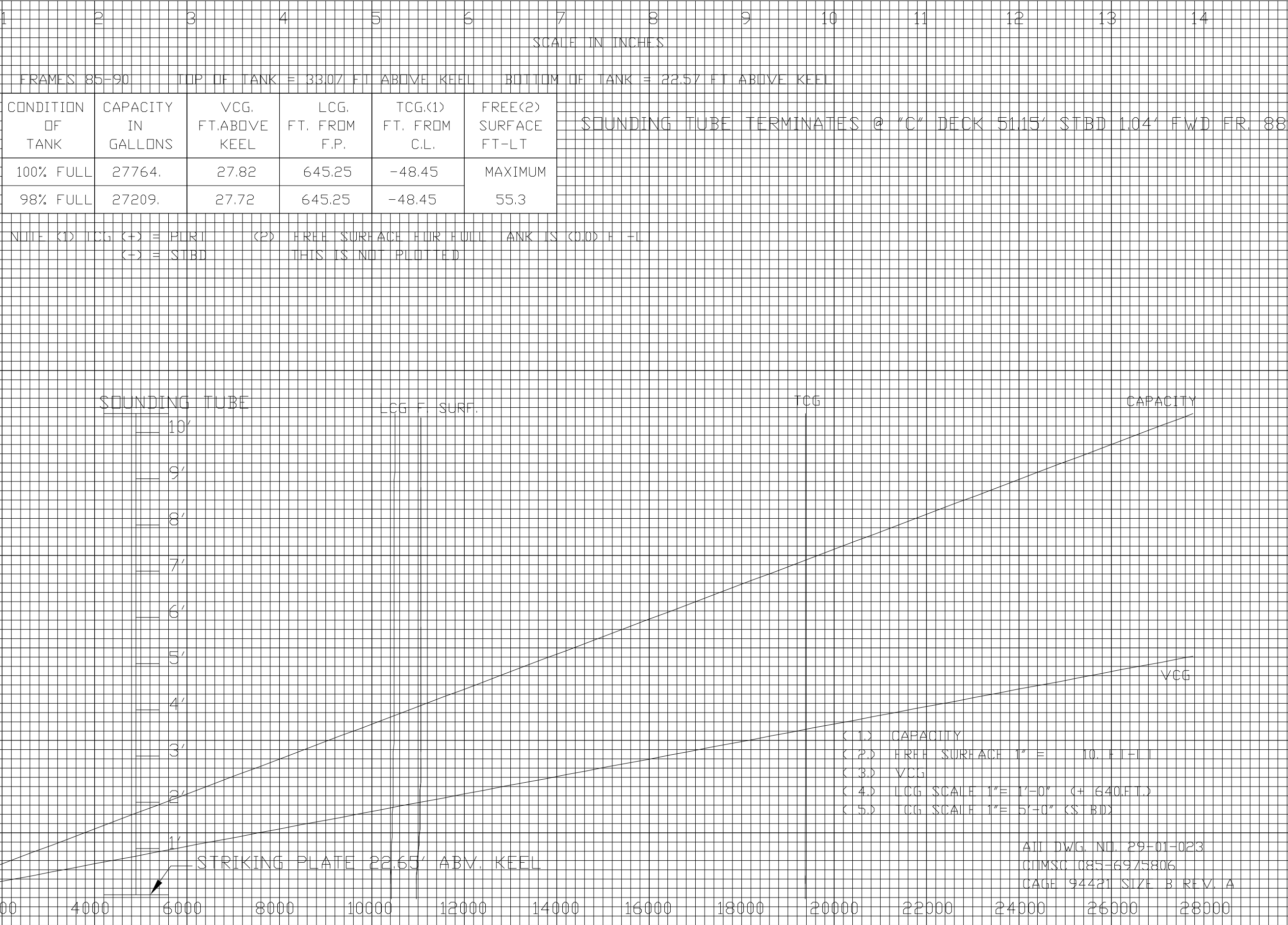
ALL DWG. NO. 29-01-023
COMSC 085-6975806
CAGE 94421 SIZE B REV. A

TANK: FUEL OIL SERVICE TANK P 6.5-85-2



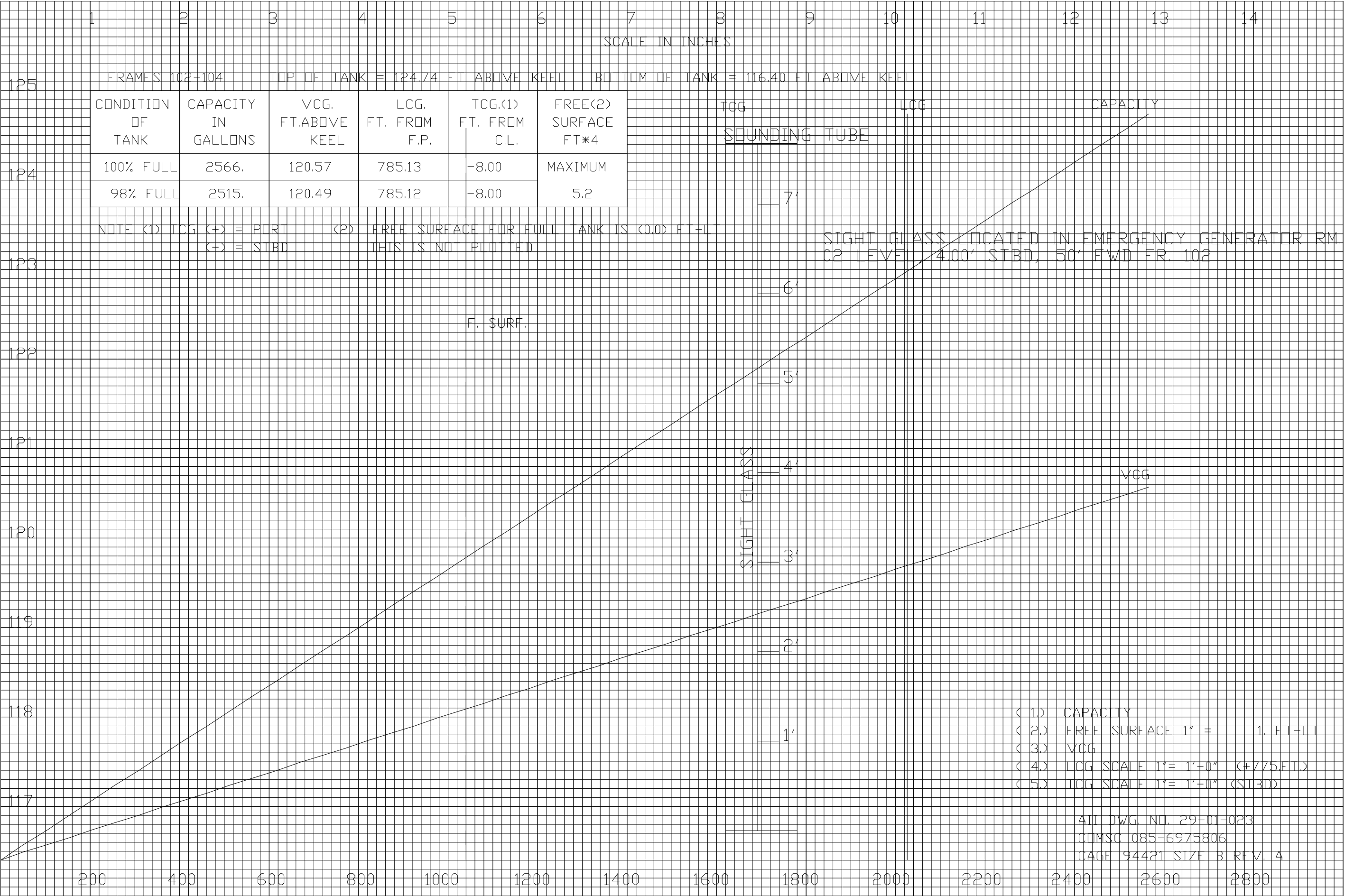
TANK: FUEL OIL SERVICE TANK S 6.5-85-1

HEIGHT ABOVE KEEL - FEET



TANK: EM GEN FO SERVICE TANK 02.5-103-1

HEIGHT ABOVE KEEL - FEET



TANK: ME/SSDG LO STORAGE TANK P 6.5-91-2

HEIGHT ABOVE KEEL - FEET

1 2 3 4 5 6 7 8 9 10 11 12 13 14

SCALE IN INCHES

40

FRAMES 91-93

TOP OF TANK = 33.07 FT ABOVE KEEL

BOTTOM OF TANK = 22.57 FT ABOVE KEEL

CONDITION OF TANK	CAPACITY IN GALLONS	VCG, FT.ABOVE KEEL	LCG, FT. FROM F.P.	TCG<1> FT. FROM C.L.	FREE<2> SURFACE FT*4
100% FULL	15237.	27.86	685.72	48.40	MAXIMUM
98% FULL	14933.	27.76	685.72	48.40	33.2

SOUNDING TUBE TERMINATES @ "C" DECK, 47.48' PORT, 5.02' FWD FR. 93

38

NOTE <1> TCG <+> = PORT <-> = STBD <2> FREE SURFACE FOR FULL TANK IS <0.0> FT-LT THIS IS NOT PLOTTED

36

34

SOUNDING TUBE

F. SURF.

LCG

CAPACITY

TCG

10'

9'

8'

7'

6'

5'

4'

3'

2'

1'

32

30

28

26

24

STRIKING PLATE 22.69' ABV KEEL

- < 1.> CAPACITY
- < 2.> FREE SURFACE 1" = 10. FT-LT
- < 3.> VCG
- < 4.> LCG SCALE 1"= 1'-0" (+680.FT.)
- < 5.> TCG SCALE 1"= 5'-0" (PORT)

ALL DWG. NO. 29-01-023
COMSC 085-6975806
CAGE 94421 SIZE B REV. A

JOB NO. C3-222

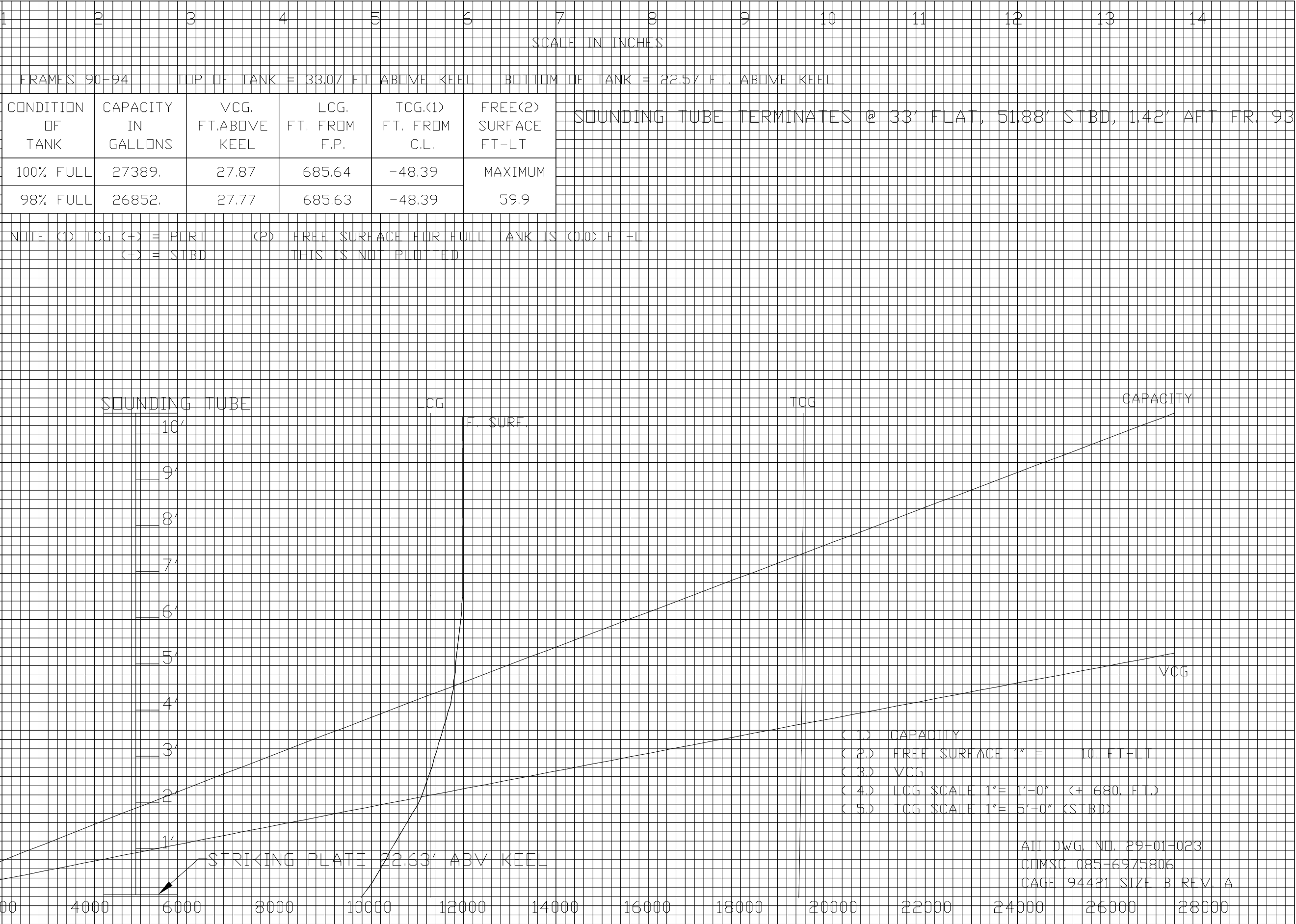
TAPE NO.

CAPACITY IN GALLONS

SHEET NO. 57

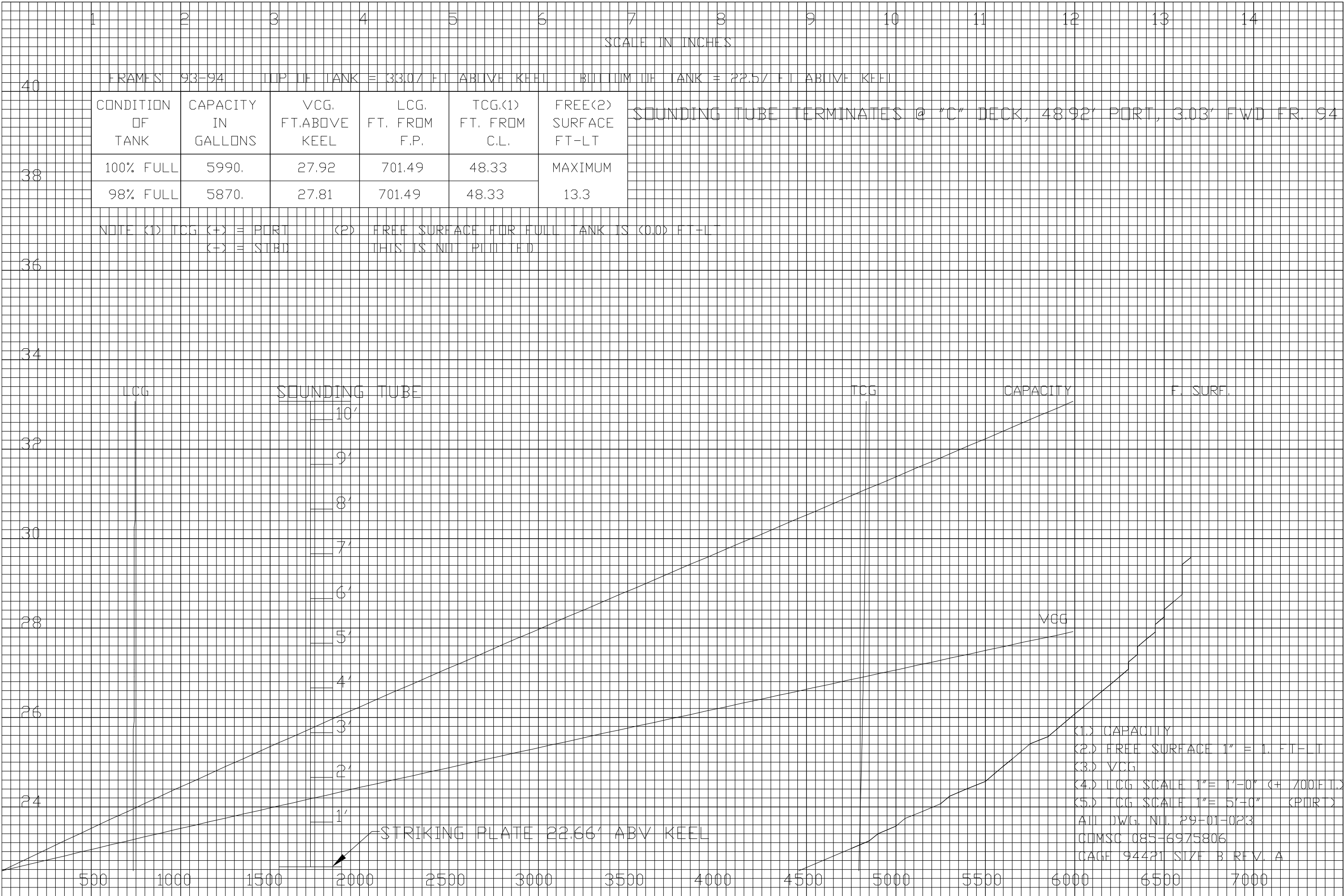
TANK: ME/SSDG LO STORAGE TANK S 6.5-90-1

HEIGHT ABOVE KEEL - FEET



TANK: ME/SSDG LO SETTLING TANK P 6.5-93-2

HEIGHT ABOVE KEEL - FEET



TANK: CPP LO STORAGE TANK 5-93-2

HEIGHT ABOVE KEEL - FEET

1 2 3 4 5 6 7 8 9 10 11 12 13 14

SCALE IN INCHES

50

FRAMES 93-94

TOP OF TANK = 44.82 FT ABOVE KEEL

BOTTOM OF TANK = 33.07 FT ABOVE KEEL

CONDITION OF TANK	CAPACITY IN GALLONS	VCG, FT.ABOVE KEEL	LCG, FT. FROM F.P.	TCG.(1) FT. FROM C.L.	FREE(2) SURFACE FT-LT
100% FULL	2765.	38.95	701.50	51.12	MAXIMUM
98% FULL	2710.	38.83	701.50	51.12	0.9

SOUNDING TUBE TERMINATES @ "C" DECK, 49.03' PORT, .94' FWD FR. 94

48

NOTE (1) TCG (+) = PORT
(-) = STBD

(2) FREE SURFACE FOR FULL TANK IS (0.0) FT-LT
(THIS IS NOT PLOTTED)

46

F. SURF.

LCG

SOUNDING TUBE

TCG

CAPACITY

44

42

40

38

36

34

11'
10'
9'
8'
7'
6'
5'
4'
3'
2'
1'

STRIKING PLATE 33.15' ABV KEEL

- (1) CAPACITY
- (2) FREE SURFACE 1" = 1.1 FT-LT
- (3) VCG
- (4) LCG SCALE 1" = 1'-0" (+ 700 FT.)
- (5) TCG SCALE 1" = 5'-0" (PORT)

ALL DWG. NO. 29-01-023
CUMSC 085-6975806
PAGE 94421 SIZE B REV. A

TANK: CPP LO SETTLING TANK 5-95-3

HEIGHT ABOVE KEEL - FEET

1 2 3 4 5 6 7 8 9 10 11 12 13 14

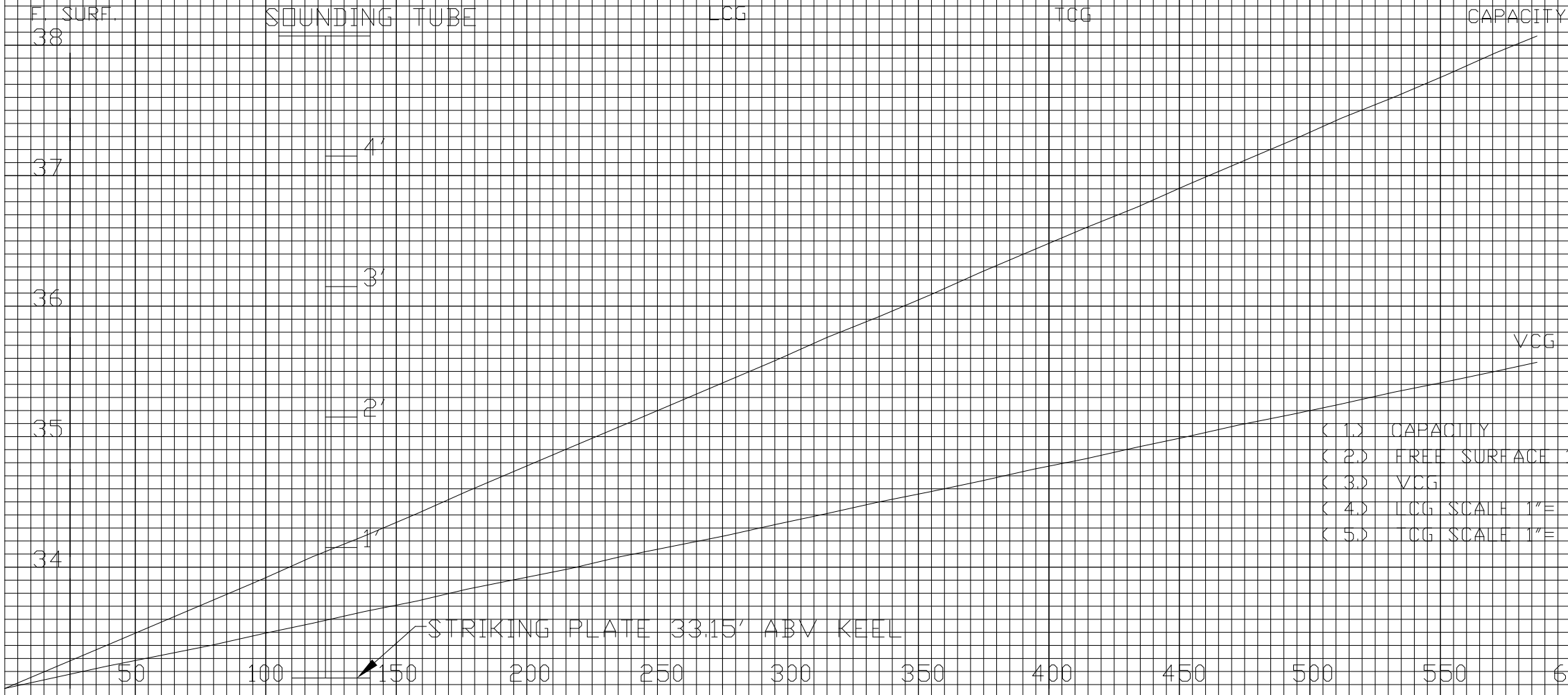
SCALE IN INCHES

FRAMES 94-94 TOP OF TANK = 38.07 FT ABOVE KEEL BOTTOM OF TANK = 33.07 FT ABOVE KEEL

CONDITION OF TANK	CAPACITY IN GALLONS	VCG, FT.ABOVE KEEL	LCG, FT. FROM F.P.	TCG<1> FT. FROM C.L.	FREE<2> SURFACE FT-LT
100% FULL	587.	35.57	710.50	-16.00	MAXIMUM
98% FULL	575.	35.52	710.50	-16.00	0.5

SOUNDING TUBE TERMINATES @ "D" DECK, 16.50' STBD, 4.75' AFT FR. 94

NOTE <1> TCG <+> = PORT <-> = STBD <2> FREE SURFACE FOR FULL TANK IS <0.0> FT-LT THIS IS NOT PLOTTED



- < 1> CAPACITY
- < 2> FREE SURFACE 1" = 1. FT-LT
- < 3> VCG
- < 4> LCG SCALE 1"= 1'-0" (<+ 705.F.T.)
- < 5> TCG SCALE 1"= 2'-0" (<STBD>)

ALL DWG. NO. 29-01-023
COMSC 085-6975806
CAGE 94421 SIZE B REV. A

TANK: RG LO STORAGE TANK 5-92-2

HEIGHT ABOVE KEEL - FEET

1 2 3 4 5 6 7 8 9 10 11 12 13 14

SCALE IN INCHES

50

FRAMES 92-93

TOP OF TANK = 44.82' FT ABOVE KEEL

BOTTOM OF TANK = 33.07' FT ABOVE KEEL

CONDITION OF TANK	CAPACITY IN GALLONS	VCG, FT.ABOVE KEEL	LCG, FT. FROM F.P.	TCG.(1) FT. FROM C.L.	FREE(2) SURFACE FT-LT
100% FULL	2776.	38.94	692.50	51.12	MAXIMUM
98% FULL	2721.	38.83	692.50	51.12	0.9

SOUNDING TUBE TERMINATES @ "C" DECK, 49.81' PORT, 1.00' AFT FR. 93

48

NOTE (1) TCG (+) = PORT
(-) = STBD

(2) FREE SURFACE FOR FULL TANK IS (0.0) FT-LT
THIS IS NOT PLOTTED

46

F. SURF.

LCG

SOUNDING TUBE

TCG

CAPACITY

44

11'

10'

42

9'

8'

40

7'

6'

38

5'

4'

36

3'

2'

34

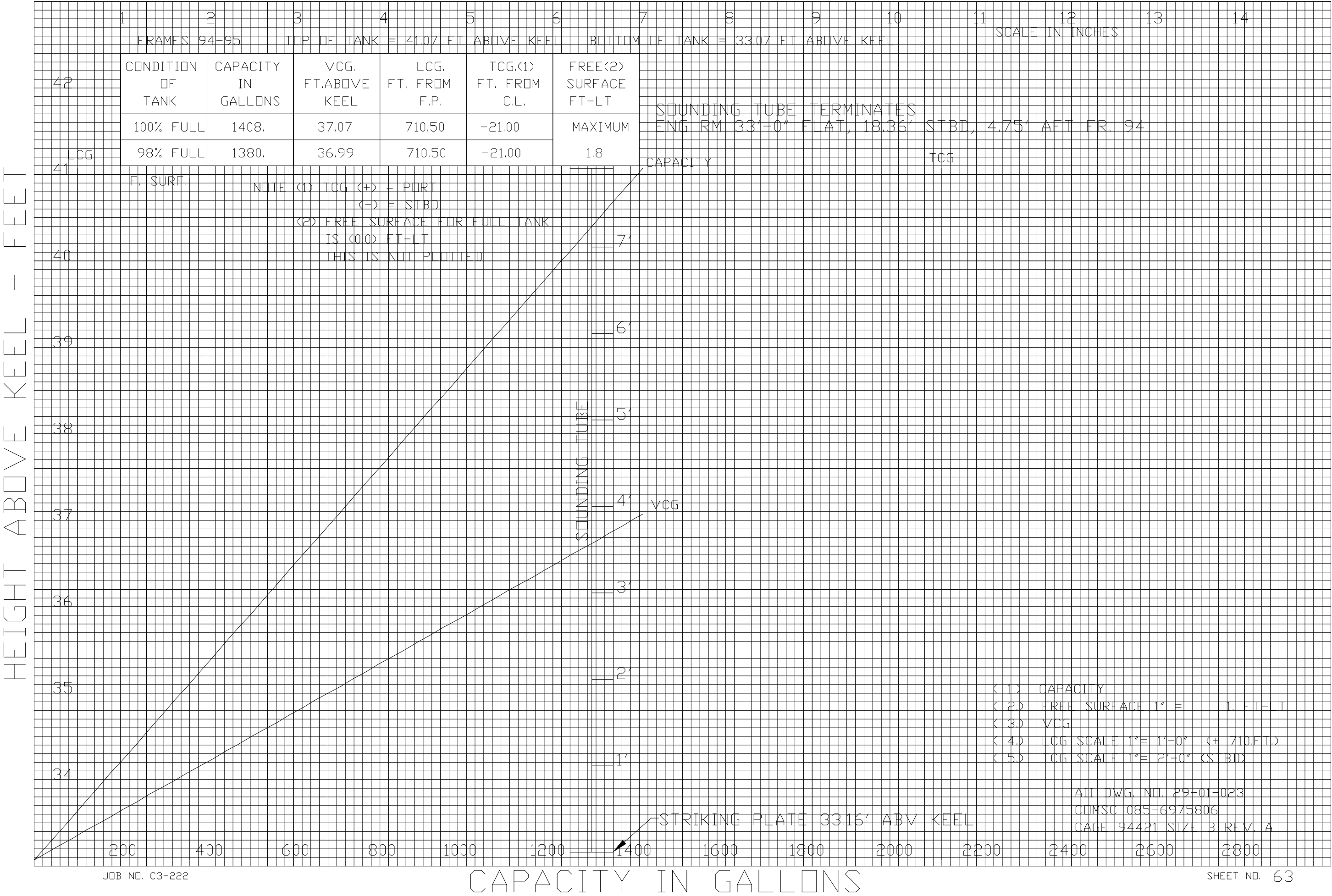
1'

STRIKING PLATE 33.25' ABV KEEL

- (1) CAPACITY
- (2) FREE SURFACE 1" = 1' FT-LT
- (3) VCG
- (4) LCG SCALE 1"= 1'-0" (+ 690.FT.)
- (5) TCG SCALE 1"= 5'-0" (PORT)

ALL DWG. NO. 29-01-023
COMSC 085-6975806
CAGE 94421 SIZE B REV. A

TANK: RG LO SETTLING TANK 5-95-5



TANK: ME LO SUMP TANK P OR S 7.5-86-4/1

HEIGHT ABOVE KEEL - FEET

1 2 3 4 5 6 7 8 9 10 11 12 13 14

SCALE IN INCHES

FRAMES 86-90 TOP OF TANK = 10.81 FT ABOVE KEEL BOTTOM OF TANK = 3.93 FT ABOVE KEEL

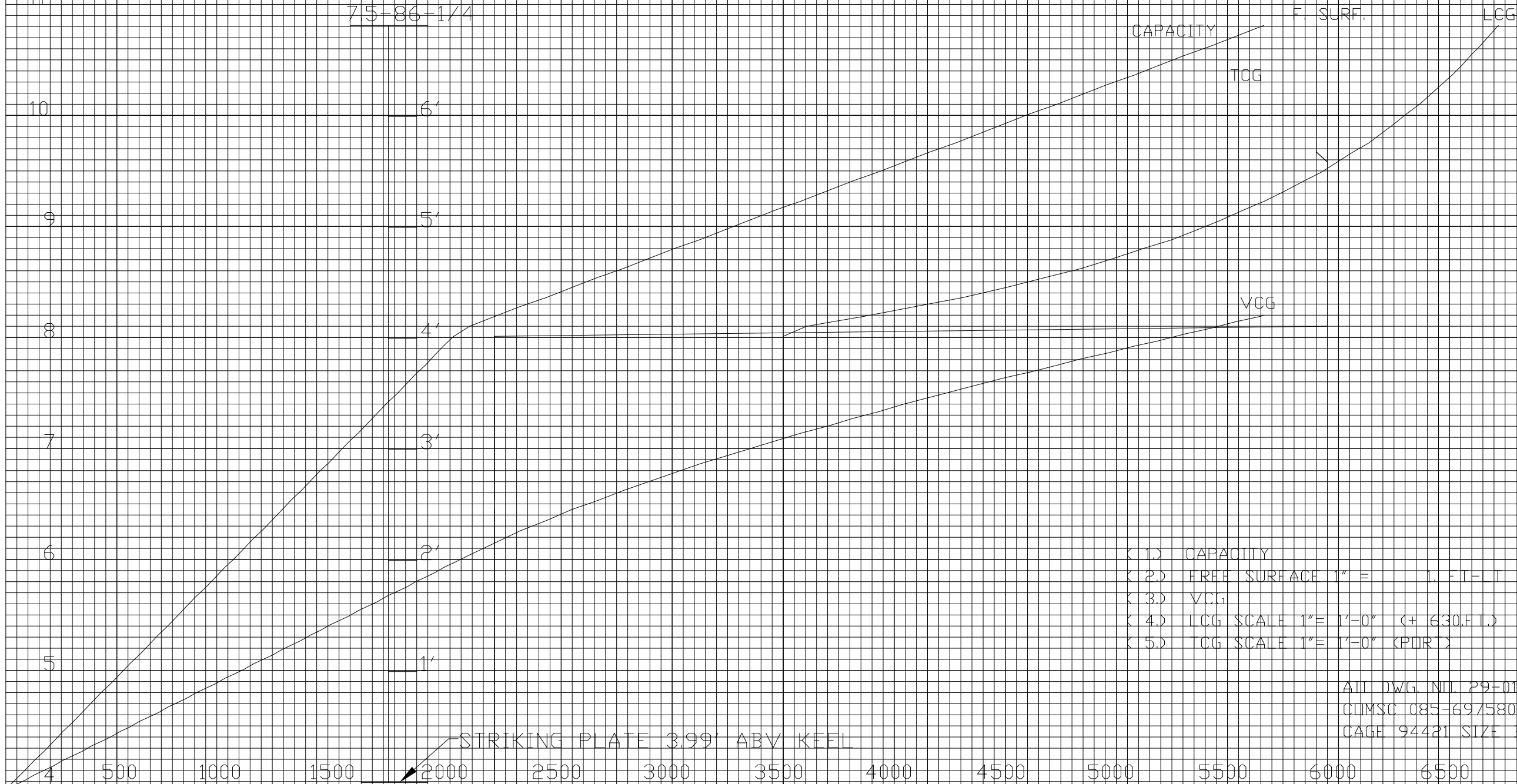
CONDITION OF TANK	CAPACITY IN GALLONS	VCG, FT.ABOVE KEEL	LCG, FT. FROM F.P.	TCG.(1) FT. FROM C.L.	FREE(2) SURFACE FT-LT
100% FULL	5664.	8.20	643.44	11.00	MAXIMUM
98% FULL	5551.	8.14	643.36	11.00	11.9

7.5-86-1 SOUNDING TUBE TERMINATES @ ENG. RM., 8.75' STBD, .67' AFT FR. 86

7.5-86-4 SOUNDING TUBE TERMINATES @ ENG. RM., 13.25' PORT, .67' AFT FR. 86

NOTE (1) TCG (+) = PORT (-) = STBD (2) FREE SURFACE FOR FULL TANK IS (0.0) FT-LT THIS IS NOT PLOTTED

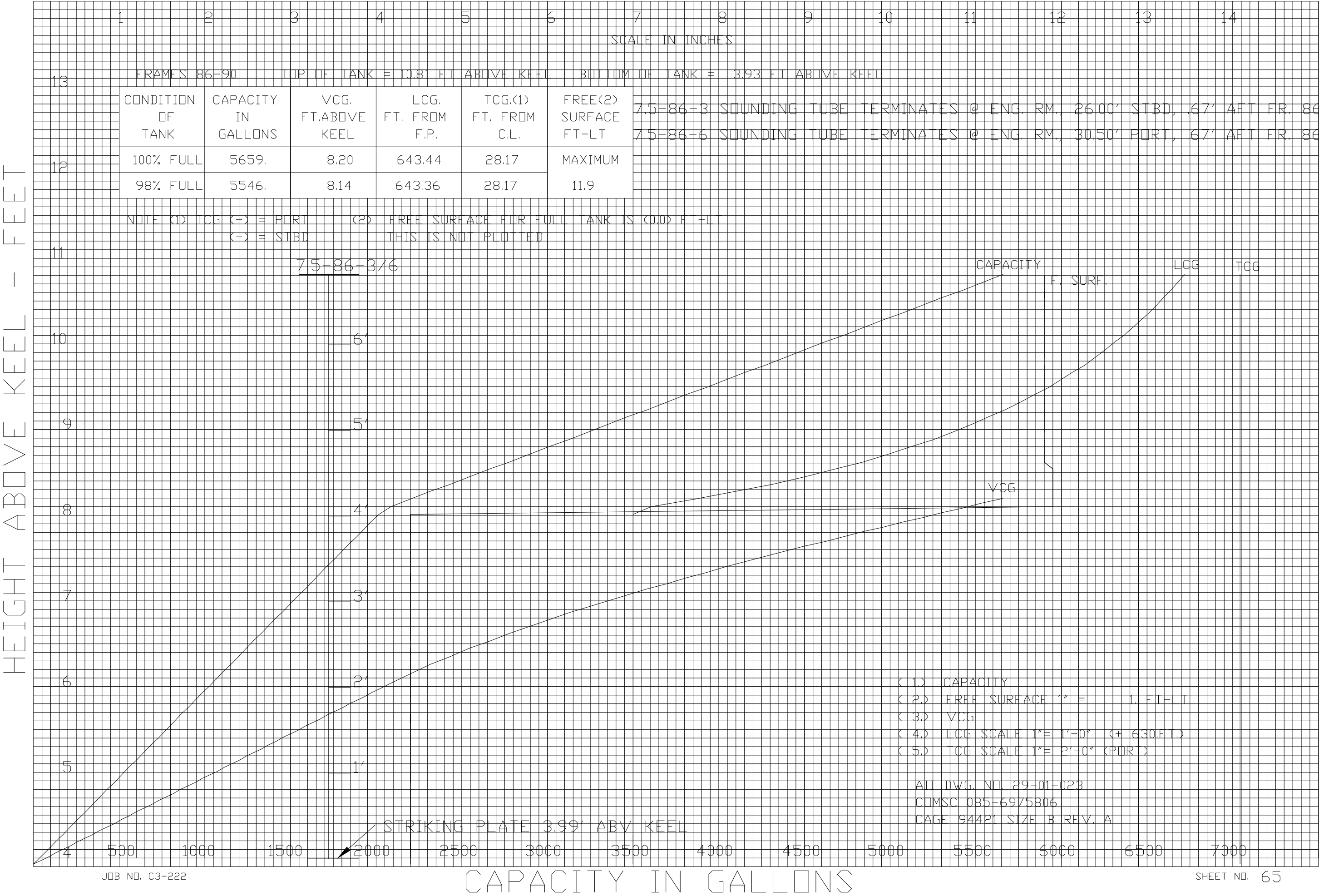
7.5-86-1/4



- (1) CAPACITY
- (2) FREE SURFACE 1" = 1. FT-LT
- (3) VCG
- (4) LCG SCALE 1"= 1'-0" (+ 630.FT.)
- (5) TCG SCALE 1"= 1'-0" (PORT)

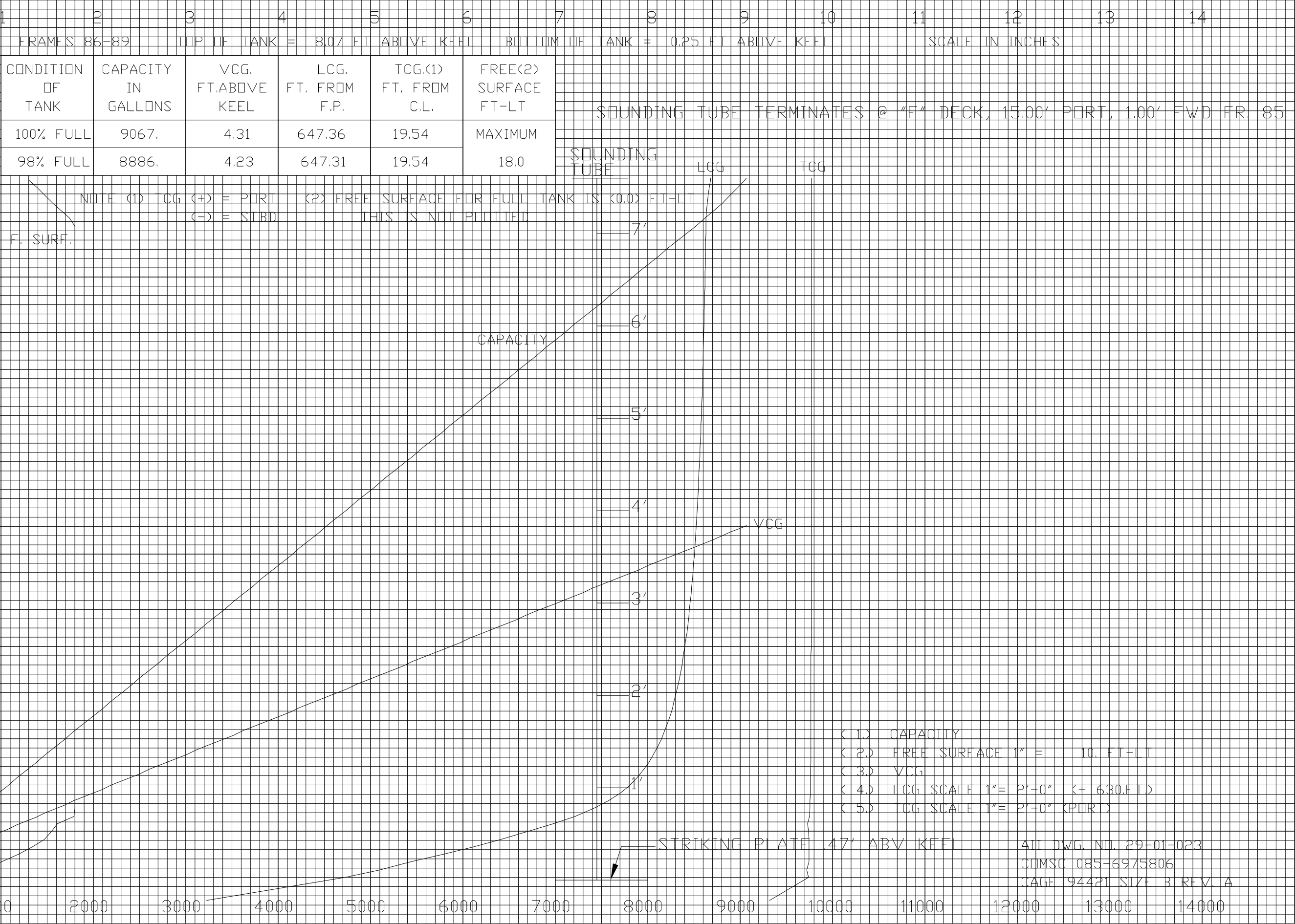
ALL DWG. NO. 29-01-023
CUMSC 085-6975806
CAGE 94421 SIZE B REV. A

TANK: ME LO SUMP TANK P OR S 7.5-86-6/3

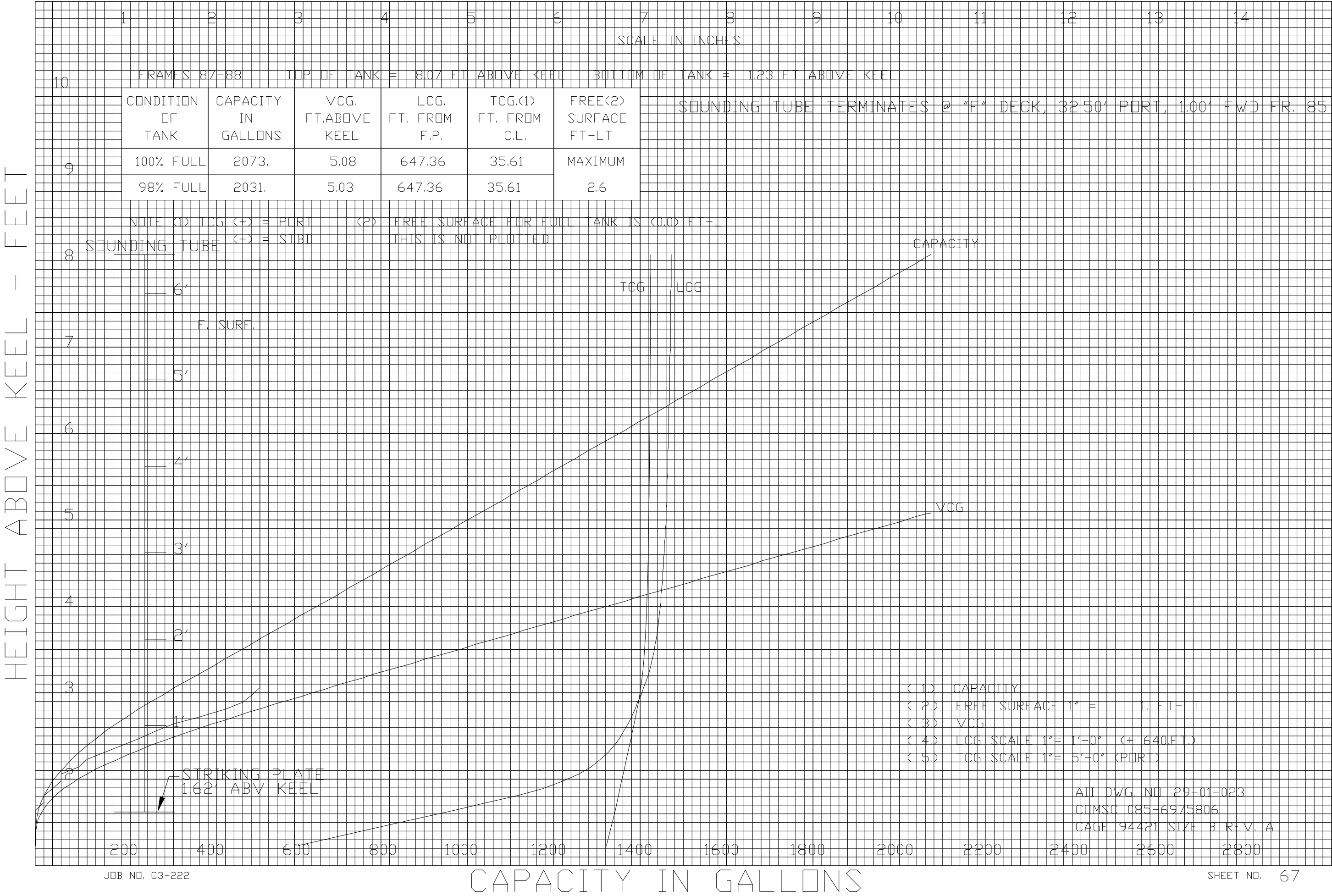


TANK: CSA WASTE OIL TANK 8-87-2

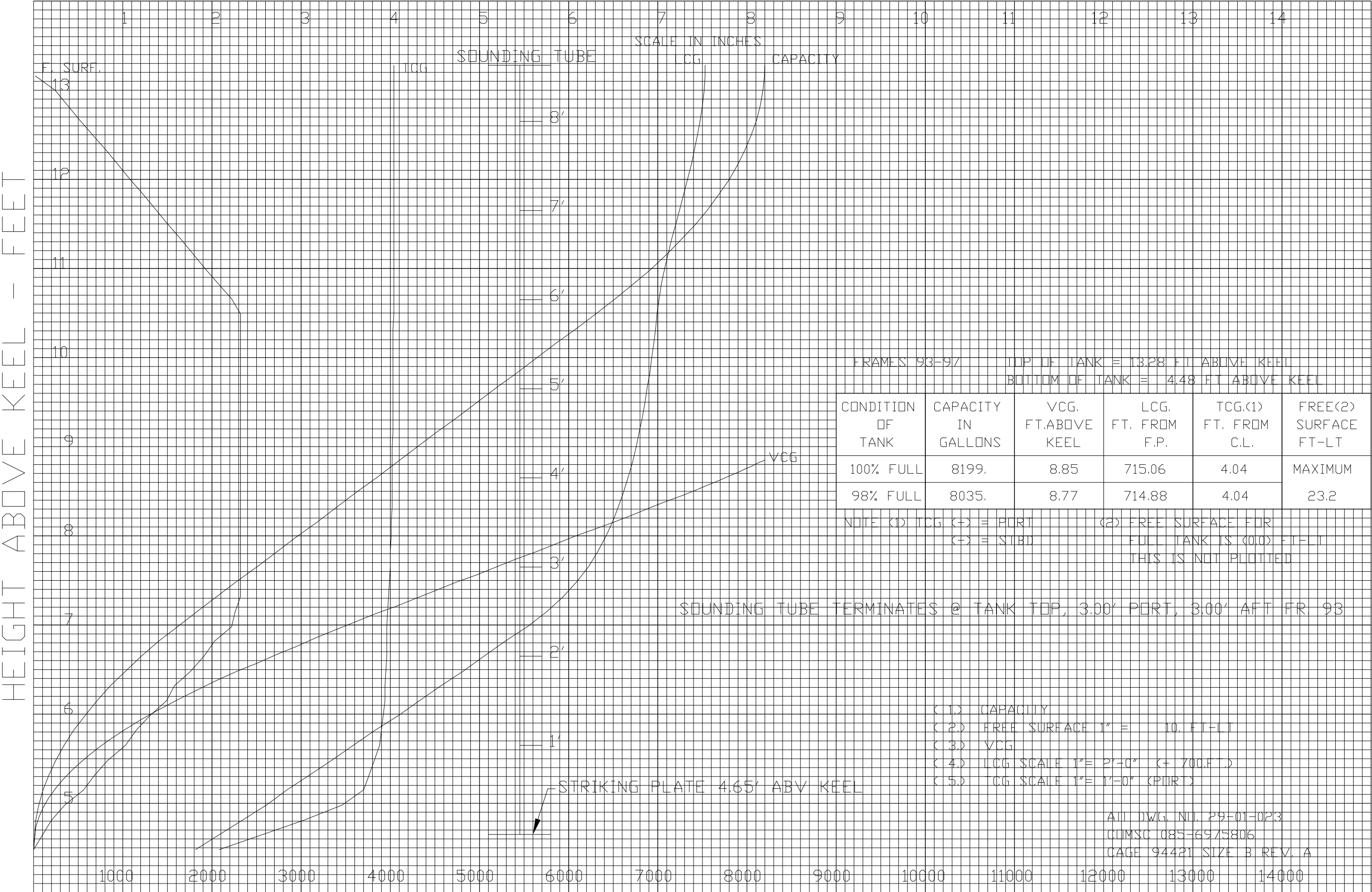
HEIGHT ABOVE KEEL - FEET



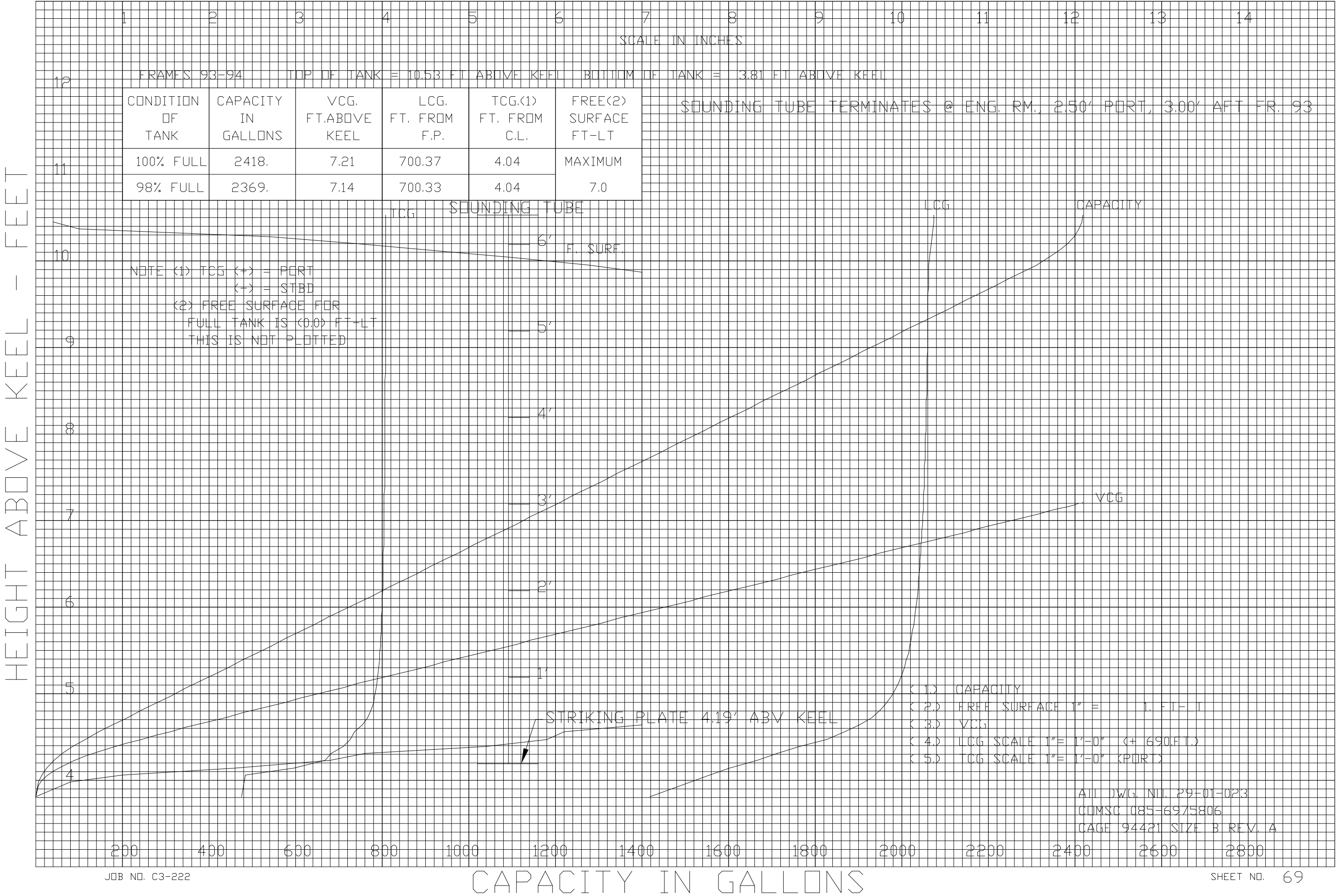
TANK: CSA OILY WASTE HOLDING TANK 8-87-4



TANK: ENGINE ROOM WASTE OIL TANK 8-94-2



TANK: ENGINE ROOM OILY WASTE HOLDING TANK 8-93-2



TANK: OILY WASTE DRAIN COLLECTING TANK 7.5-86-2

HEIGHT ABOVE KEEL - FEET

1 2 3 4 5 6 7 8 9 10 11 12 13 14

SCALE IN INCHES

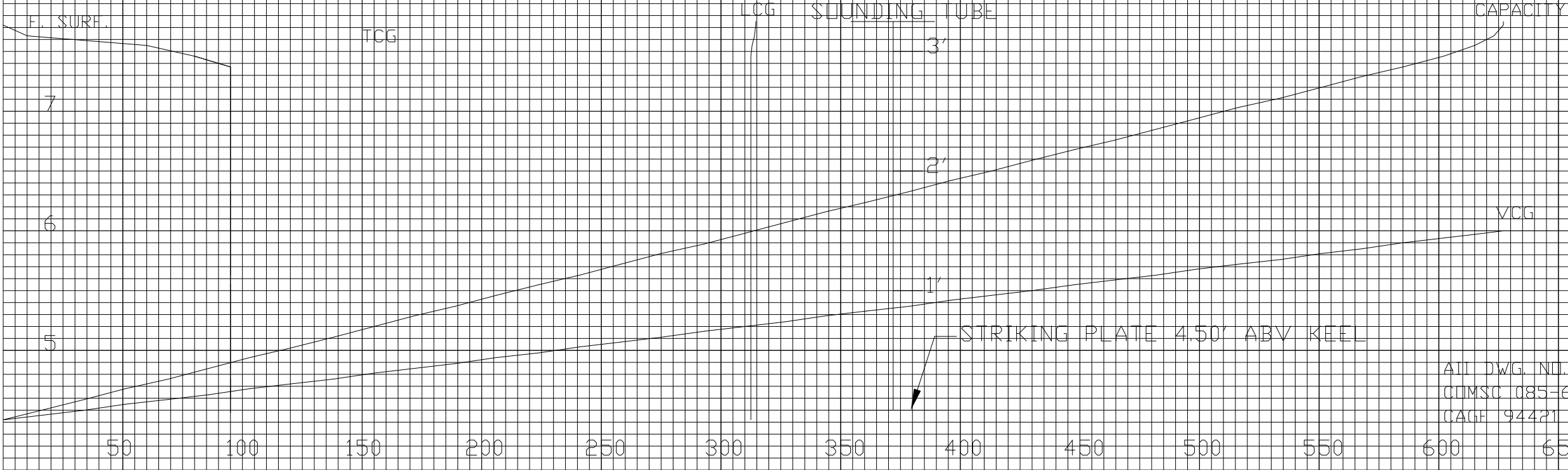
FRAMES 86-87 TOP OF TANK = 7.75 FT ABOVE KEEL BOTTOM OF TANK = 4.42 FT ABOVE KEEL

CONDITION OF TANK	CAPACITY IN GALLONS	VCG, FT.ABOVE KEEL	LCG, FT. FROM F.P.	TCG.(1) FT. FROM C.L.	FREE(2) SURFACE FT-LT
100% FULL	627.	6.00	636.29	3.00	MAXIMUM
98% FULL	615.	5.97	636.26	3.00	1.9

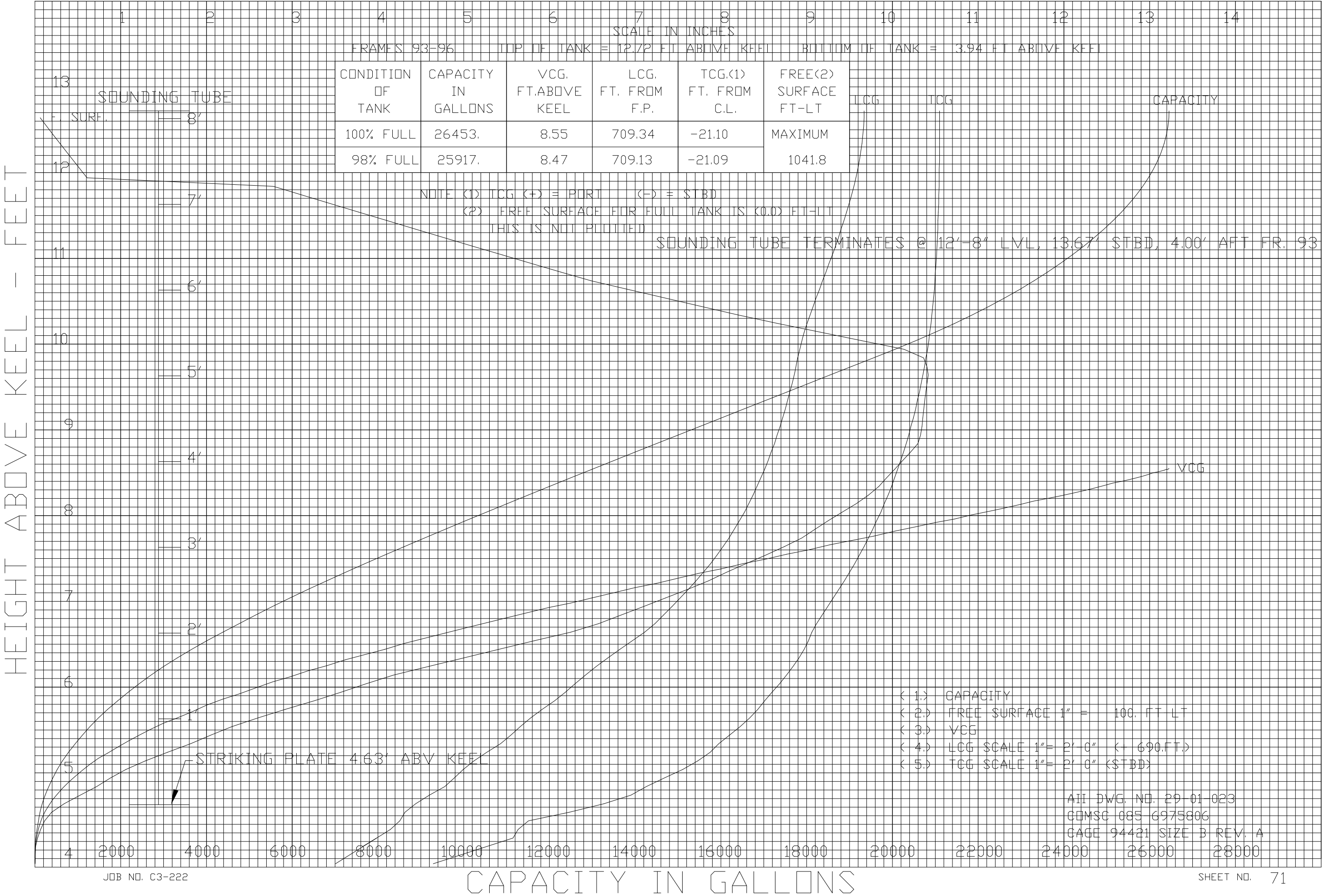
SOUNDING TUBE TERMINATES @ ENG. RM., 3.75' PORT, .33' AFT FR. 86

NOTE (1) TCG (+) = PORT (-) = STARBOARD (2) FREE SURFACE FOR FULL TANK IS (0.0) FT-LT THIS IS NOT PLotted

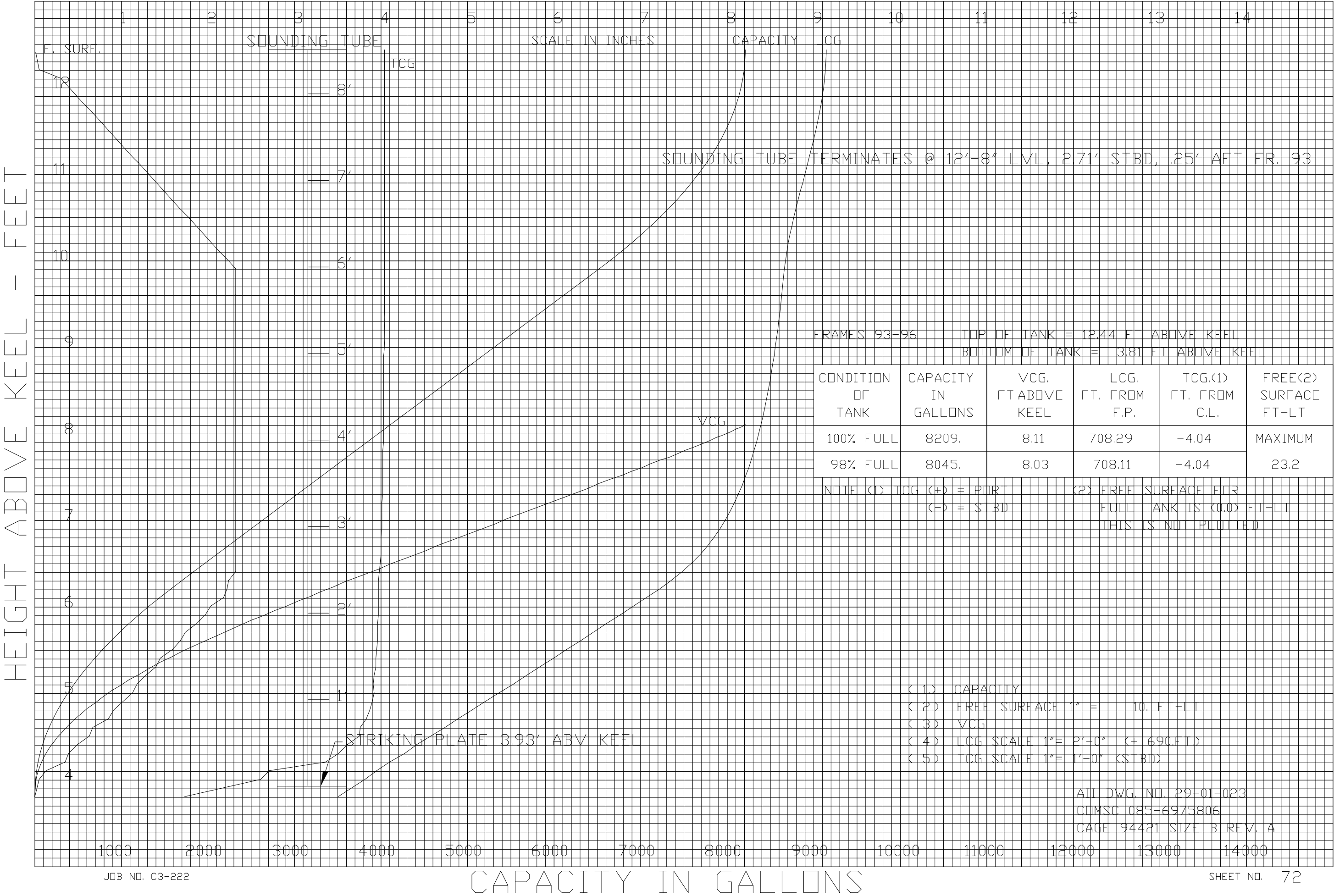
- < 1.> CAPACITY
- < 2.> FREE SURFACE 1" = 1. FT-LT
- < 3.> VCG
- < 4.> LCG SCALE 1"= 1'-0" (+ 630.FT.)
- < 5.> TCG SCALE 1"= 1'-0" (PORT)



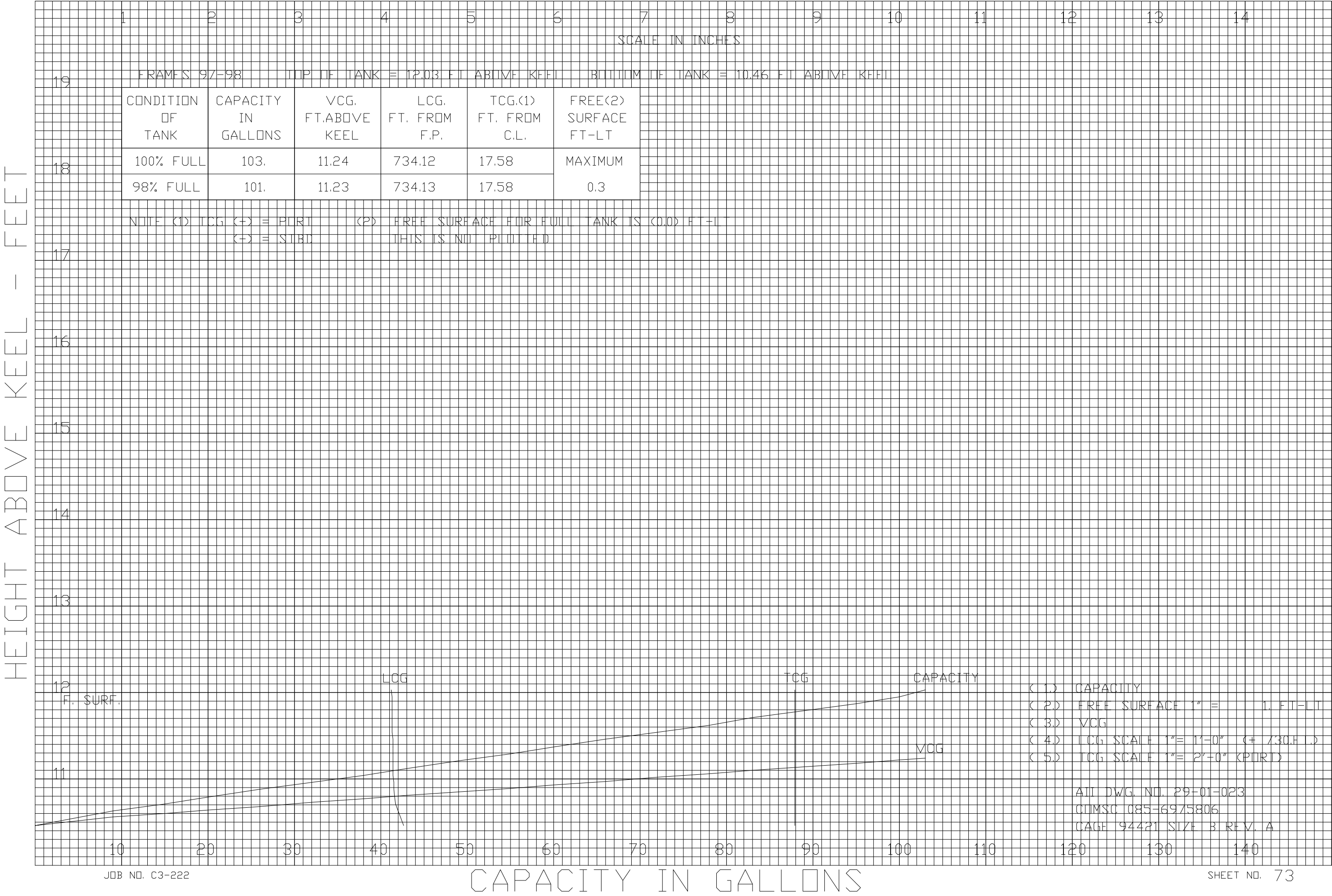
TANK: USED OIL TANK 8-93-3



TANK: FUEL OIL OVERFLOW TANK 8-93-1



TANK: STERN TUBE LO DRAIN TANK P OR S 7.5-97-2/1



TANK: VCHT TANK 2.5-91-2

HEIGHT ABOVE KEEL - FEET

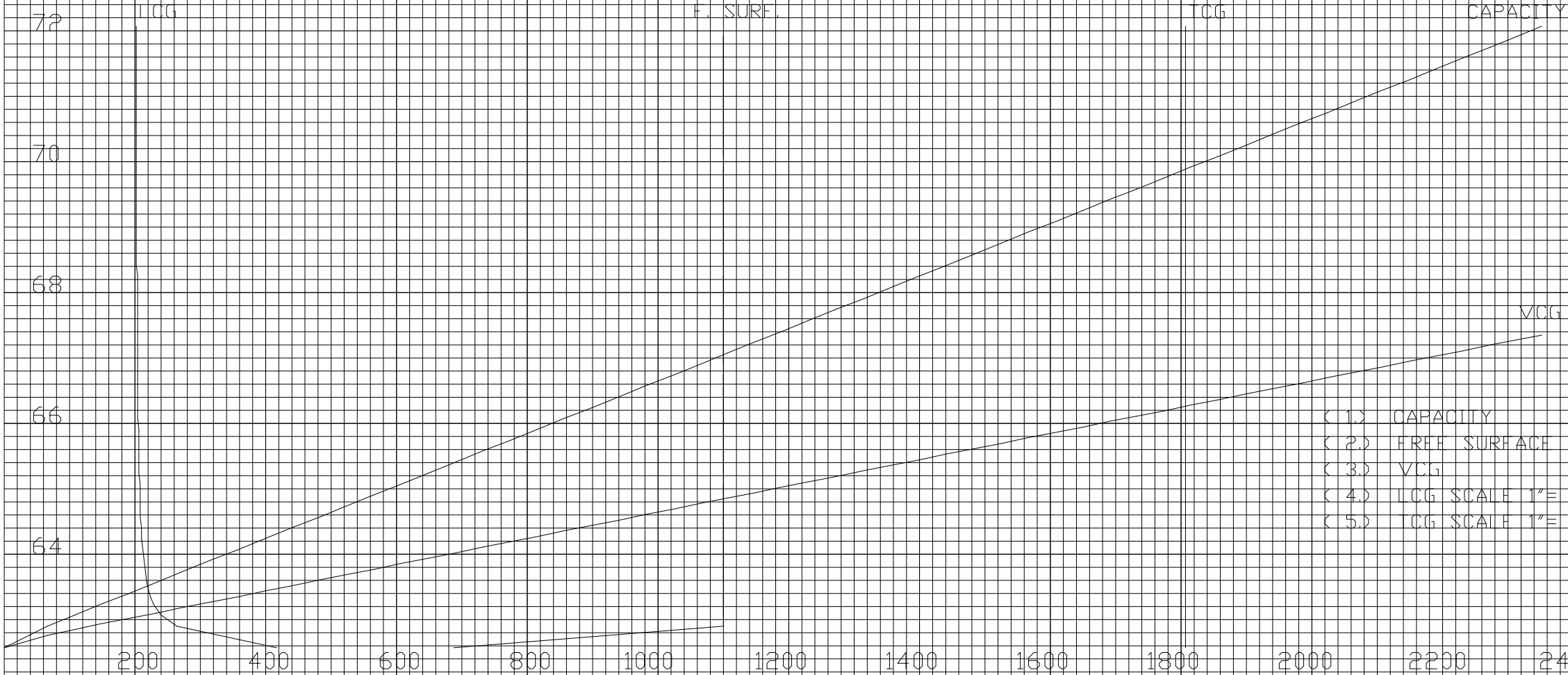
1 2 3 4 5 6 7 8 9 10 11 12 13 14

SCALE IN INCHES

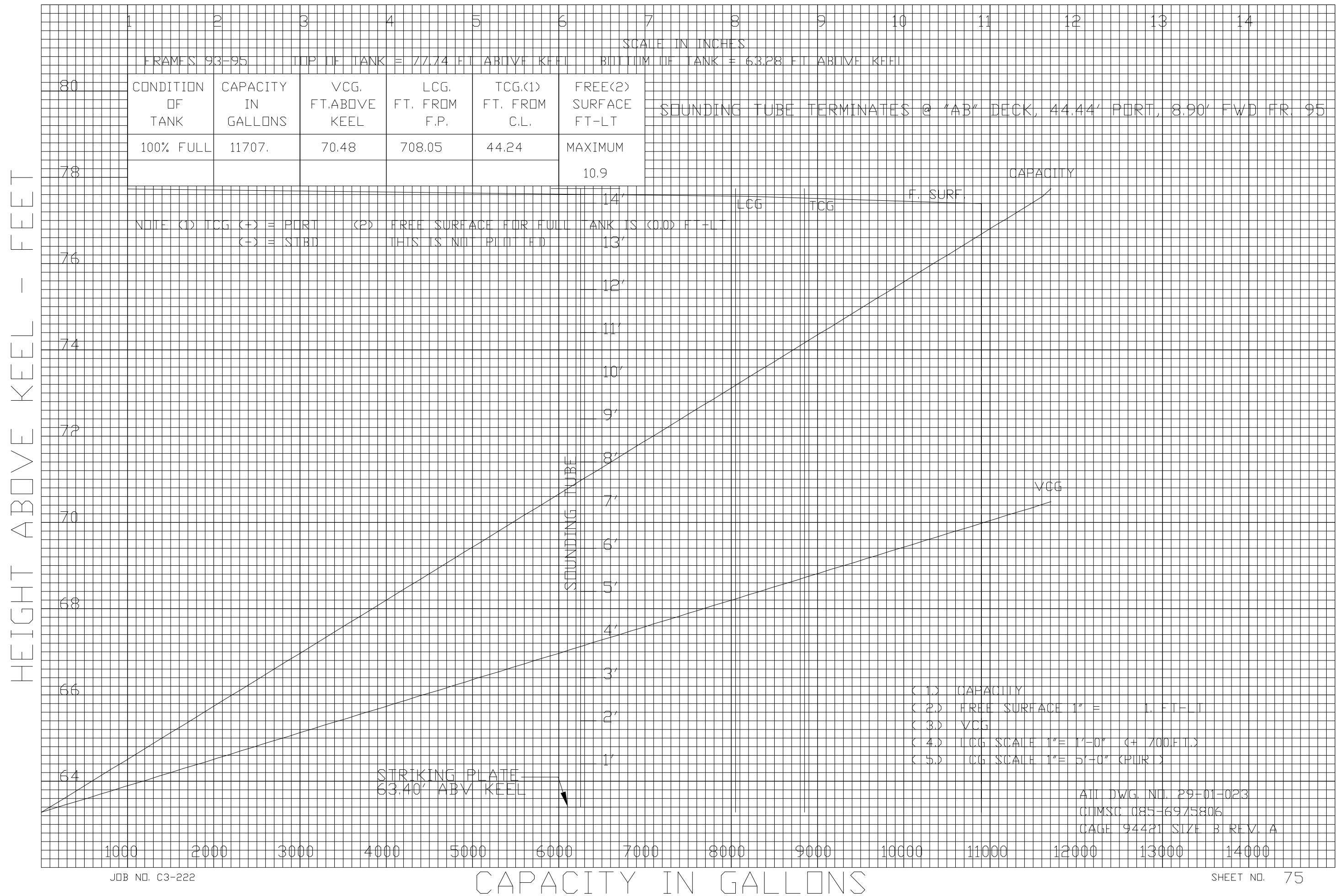
FRAMES 91-92 TOP OF TANK = 72.07 FT ABOVE KEEL BOTTOM OF TANK = 62.57 FT ABOVE KEEL

CONDITION OF TANK	CAPACITY IN GALLONS	VCG, FT.ABOVE KEEL	LCG, FT. FROM F.P.	TCG<1> FT. FROM C.L.	FREE<2> SURFACE FT-LT
100% FULL	2352.	67.35	681.01	45.17	MAXIMUM
					5.5

NOTE <1> TCG (+) = PORT (-) = STBD <2> FREE SURFACE FOR FULL TANK IS (0.0) FT-LT THIS IS NOT PLOTTED



TANK: WASTE WATER TANK 2.5-94-2



TANK: FIXED BALLAST TANK 8-57-0

